Annual Statistical Report

AMERICAN IRON AND STEEL INSTITUTE

1979

AMERICAN IRON AND STEEL INSTITUTE
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FOREWORD

The year 1980 marks the 125th in which the American Iron and Steel Institute and its predecessor associations have served the American steel industry in the collection and distribution of steel industry statistics.

Over the past 125 years, there have been dramatic changes in steel production processes and in steel markets. The 1980s are expected to witness critical developments in both of these areas. It is not yet clear what these changes will be, but the Statistics Department of the American Iron and Steel Institute expects to roadmap these changes as it has in the past.

The majority of the data found in the Annual Statistical Report is compiled from data submitted by reporting companies, although some series from other published sources are also included. For the most part, the data in this report represent the steel production activities of reporting companies. However, certain financial statistics represent the broader spectrum of corporate activities—including steel and non-steel. For this and other reasons, the coverage of this report may differ somewhat with that found in other publications.

The Institute would like to express its appreciation for the contributions of many individuals in member companies and in the Institute's Statistical Department. Without the contributions of these individuals, the annual report and other statistical publications of the Institute would not be possible.

DONALD F. BARNETT
Vice President

May, 1980

NOTES

D—Disclosure

P—Preliminary

R—Revised

n.a.—Not available

Net ton—2,000 pounds

Gross ton—2,240 pounds

Rounded figures do not necessarily add to totals.

SELECTED HIGHLIGHTS

THE IRON AND STEEL INDUSTRY AT A GLANCE

The Selected Statistical Highlights present a ten-year trend from which comparisons of year-to-year changes may be made for those items of the industry that are indicative of the operating level and the financial status of reporting companies. In the use of the highlights, it should be recognized that there is a difference in the universe of reporting companies for each of the major items in the statistical section. This is especially significant for the financial series as compared to other series; for example, the universe for financial data represents companies who in 1979 produced 88.4% of the reported raw steel production. Also, the user should recognize that many of these companies produce and sell products and services other than those related to the steel industry. Therefore, the financial data reported represents the results of the total operations of the steel companies.

TABLE 1A—SELECTED STATISTICAL HIGHLIGHTS
THE IRON AND STEEL INDUSTRY AT A GLANCE (a)

Year	Steel Mill Products: Total Net Shipments	Steel Mill Products: Less Exports	Steel Mill Products: Plus Imports	Steel Mill Products: Apparent Steel Supply	Imports as % Of Apparent Steel Supply	Steel Employment (b): Average No. of Employees	Raw Steel Production: U.S.	Raw Steel Production: World	Raw Steel Production: % U.S. of World
	(Thousands of Net Tons)					(Thousands)	(Thousands of Net Tons)		
1979	100,262	2,818	17,518	114,962	15.2	453	136,349*	824,455	16.5
1978	97,935	2,422	21,135	116,648	18.1	449	137,031*	790,607 R	17.3 R
1977	91,147	2,003	19,307	108,451	17.8	452	125,333*	741,828	16.9
1976	89,447	2,654	14,285	101,078	14.1	454	128,000*	745,592	17.2
1975	79,957	2,953	12,012	89,016	13.5	457	116,642*	712,033	16.4
1974	109,472	5,833	15,970	119,609	13.4	512	145,720	782,798	18.6
1973	111,430	4,052	15,150	122,528	12.4	509	150,799	768,570	19.6
1972	91,805	2,873	17,681	106,613	16.6	478	133,241	694,481	19.2
1971	87,038	2,827	18,304	102,515	17.9	487	120,443	639,907	18.8
1970	90,798	7,062	13,364	97,100	13.8	531	131,514	654,184	20.1
Details on Page:	30	38	44			21	55	93	92

* Production in 1979 equaled 87.8 percent, in 1978 86.8 percent, in 1977 78.4 percent, in 1976 80.9 percent, and in 1975 76.2 percent of industry raw steel production capability.

TABLE 1B—SELECTED FINANCIAL HIGHLIGHTS *
THE IRON AND STEEL INDUSTRY AT A GLANCE (a)

(Millions of Dollars)

Year	Sales	Net Income	Net Income as a % of Sales	Stockholders' Equity †	Net Income as a % of Stockholders' Equity	Working Capital Ratio	Long-Term Debt	Capital Expenditures
1979	$56,716.0	$1,197.5	2.1	$17,693.6	6.8	1.7	$9,211.1	$3,367.1
1978 R	49,033.0	1,276.6	2.6	17,603.7	7.3	1.8	8,763.0	2,595.2
1977	39,399.8	22.3‡	0.06	18,027.3	0.1	1.8	7,958.9	2,850.3
1976	36,092.5	1,337.4	3.7	17,192.2	7.8	1.9	6,966.5	3,252.9
1975	33,143.8	1,594.9	4.8	16,243.2	9.8	2.0	5,705.3	3,179.4
1974	37,745.0	2,475.2	6.6	14,513.5	17.1	1.8	4,651.2	2,114.7
1973	28,494.9	1,272.2	4.5	13,674.5	9.3	1.9	4,962.9	1,399.9
1972	22,364.9	774.8	3.5	13,281.4	5.8	1.9	5,229.6	1,174.3
1971	20,189.7	562.8	2.8	12,966.6	4.3	1.9	5,144.4	1,425.0
1970	19,059.9	531.6	2.8	12,836.0	4.1	1.9	5,133.9	1,736.2
Details on Page:	13	13	13	16	13		16	16

† As of January 1 of each year.
‡ Reflects substantial impact of permanent plant closings.

TABLE 1C—SELECTED FINANCIAL HIGHLIGHTS *

THE IRON AND STEEL INDUSTRY AT A GLANCE (a)
SOURCE AND DISPOSITION OF FUNDS

(Millions of Dollars)

	Source								Disposition			
Year	Net Income	Less Cash Dividends Declared	Income Reinvested	Depreciation, etc.	Increase (Decrease) in Reserves, etc.	Total Internal Sources	External Debt and Stock	Total Sources of Funds	Capital Expenditures	Increase (Decrease) in Working Capital	Miscellaneous Investment and All Other	Total Disposition of Funds
1979	$1,197.5	$ 611.2	$ 586.3	$1,881.8	$ 492.0	$2,960.1	$ 329.9	$3,290.0	$3,367.1	$249.5	$ (326.6)	$3,290.0
1978 R	1,276.6	536.1	740.5	1,707.1	261.1	2,708.7	140.3	2,849.0	2,595.2	719.1	(465.3)	2,849.0
1977	22.3†	555.0	(532.7)	1,521.7	366.0	1,355.0	1,101.5	2,456.5	2,850.3	(133.9)	(259.9)	2,456.5
1976	1,337.4	637.1	700.3	1,378.4	235.9	2,314.6	1,396.0	3,710.6	3,252.9	275.0	182.7	3,710.6
1975	1,594.9	657.8	937.1	1,272.8	317.6	2,527.5	1,066.0	3,593.5	3,179.4	(43.8)	457.9	3,593.5
1974	2,475.2	674.4	1,800.8	1,327.2	225.8	3,353.8	(382.8)	2,971.0	2,114.7	935.8	(79.5)	2,971.0
1973	1,272.2	443.1	829.1	1,262.6	66.7	2,158.4	(256.8)	1,901.6	1,399.9	677.0	(175.3)	1,901.6
1972	774.8	402.3	372.5	1,170.7	44.8	1,588.0	105.8	1,693.8	1,174.3	357.9	161.6	1,693.8
1971	562.8	390.3	172.5	1,076.9	46.2	1,295.6	152.8	1,448.4	1,425.0	(55.5)	78.9	1,448.4
1970	531.6	487.5	44.1	1,044.2	83.7	1,172.0	612.2	1,784.2	1,736.2	346.1	(298.1)	1,784.2
Details on Page:	13	13	...	13	16	...	...	...	16	16	...	...

(a) For descriptions of individual series see prefaces to applicable sections containing details.
(b) Covering only those employees engaged in the production and sale of iron and steel products and excludes mining and quarrying operations, transportation, warehousing, fabrication and other non-steel producing activities.
* Represents consolidated reports of steel industry companies who in 1979 produced 88.4% of the reported raw steel production.
† Reflects substantial impact of permanent plant closings.

TABLE 1D—SELECTED FINANCIAL HIGHLIGHTS
THE IRON AND STEEL INDUSTRY AT A GLANCE
CAPITAL EXPENDITURES FOR POLLUTION CONTROL FACILITIES

(Millions of Dollars)

Year	Water	Air	Total
1951–1965	$ 209.6	$ 238.8	$ 448.4
1966–1970	315.9	256.9	572.8
1971–1975	439.3	790.6	1,229.9
1976	158.7	330.5	489.2
1977	205.7	329.1	534.8
1978	180.8	277.2	458.0
1979	201.2	449.6	650.8
Total	$1,711.2	$2,672.7	$4,333.9
Authorized for 1980 or later	$ 406.9	$ 835.3	$1,242.2

Note: Capital expenditures in the above table include only those for facilities which were installed primarily for pollution control in domestic iron and steelmaking sectors, including steel company owned mines, quarries and fabricating plants. Total capital expenditures for all purposes, as shown in Tables 1B and 4 include those made by steel companies in both steel and nonsteel operations, domestic and foreign.

FINANCIAL STATISTICS

Income, Dividends, Return on Revenue and Stockholders' Equity
Employment Data
Balance Sheet, Capital Expenditures
BLS Consumer and Producer Price Index

FINANCIAL STATISTICS

Financial data for 1979 includes companies which make up 88.4% of the reported total raw steel production of the entire industry. Other years are based on results of companies representing varying percentages of the entire industry. Such results also include activities which are not part of the steel industry (extractive industries, fabrication, transportation, etc.) Likewise, the employment data for this universe includes the cost of employees engaged in all such operations. Employment data for steel operations of these companies are shown as memoranda data but are not the same perimeter as those included in the employment section.

Indexes on consumer and producer prices of steel mill products in the iron and steel industry are those compiled by the United States Department of Labor, Bureau of Labor Statistics.

TABLE 2—INCOME, DIVIDENDS, RETURN ON REVENUES AND STOCKHOLDERS' EQUITY

(Covering the consolidated statements including all the affiliated interests of the parent companies rendering these reports)

	1979	1978 [R]	1977	1976	1975	1974	1973	1972	1971	1970
Reporting Companies Represent:										
Blast furnace production (Million net tons)	83.3	83.9	77.5	83.5	76.1	91.7	96.9	84.9	77.2	86.1
Per cent of industry	95.8	95.7	95.3	96.1	95.2	95.6	96.0	95.5	95.0	94.2
Raw steel production (Million net tons)	120.6	121.7	111.6	116.3	105.1	132.9	138.1	122.1	109.7	119.8
Per cent of industry	88.4	88.8	89.0	90.9	90.1	91.2	91.6	91.6	91.1	91.5
Shipments of finished steel products (Million net tons)	88.7	86.3	81.5	81.8	72.9	101.3	104.3	85.7	81.1	83.0
Statement of Income: (Millions of dollars)										
Revenues:										
Sales (Net billing value of products shipped and other services)	$56,716.0	$49,033.0	$39,399.8	$36,092.5	$33,143.8	$37,745.0	$28,494.9	$22,364.9	$20,189.7	$19,059.9
Interest, dividends and other income	638.6	445.2	307.7	369.9	532.5	498.6	368.3	190.8	168.1	209.6
Total Revenue	57,354.6	49,478.2	39,707.5	36,462.4	33,676.3	38,243.6	28,863.2	22,555.7	20,357.8	19,269.5
Costs Applied to Billings and Other Services:										
Employment Costs:										
Wages and salaries (a)	14,731.2	12,976.0	11,218.8	10,222.3	9,232.8	9,579.9	8,312.4	7,177.8	6,454.4	6,392.4
Social security taxes	1,006.6	844.2	697.7	635.9	566.4	585.8	509.3	358.2	307.3	297.3
Pensions	1,536.0	1,419.3	1,192.5	1,153.1	967.0	791.5	587.2	454.3	368.0	386.5
Insurance	1,172.7	1,028.9	913.3	873.7	745.4	585.4	537.2	504.3	472.9	413.0
Savings and vacation type plans	‡	‡	‡	76.7	89.4	74.8	53.8	56.6	53.6	63.0
Supplemental unemployment benefits	42.1	66.6	75.0	61.6	42.6	54.8	58.9	58.9	44.2	40.3
All other employment costs	605.0	433.6	312.7	250.3	239.5	186.3	142.5	114.1	93.6	93.0
Total Employment Costs	19,093.6	16,768.6	14,410.0	13,273.6	11,883.1	11,858.5	10,201.3	8,723.9	7,794.0	7,685.5
Materials, supplies, freight and other services, etc	32,395.9	27,494.5	22,096.4	19,175.7	17,373.6	19,900.3	14,450.5	10,687.6	9,936.8	9,160.9
Depreciation, depletion and amortization	1,881.8	1,707.1	1,521.7	1,378.4	1,272.8	1,327.2	1,262.6	1,170.7	1,076.9	1,044.2
Interest and charges on debt	838.1	752.2	605.4	480.7	382.5	353.7	357.4	345.8	332.1	288.5
Taxes other than income (b)	811.4	688.8	533.5	560.8	515.7	482.6	452.5	494.7	475.7	432.8
Taxes on income (c)	423.3	652.5	(433.4)	265.7	653.7	1,846.1	666.7	358.2	179.5	126.0
(Gain) or loss on discontinued operations and sales of assets (d)	713.0	137.9	951.6	(9.9)						
Total Costs	56,157.1	48,201.6	39,685.2	35,125.0	32,081.4	35,768.4	27,591.0	21,780.9	19,795.0	18,737.9
Net Income (e)	$ 1,197.5	$ 1,276.6	$ 22.3*	$ 1,337.4	$1,594.9	$2,475.2	$ 1,272.2	$ 774.8	$ 562.8	$ 531.6
Per Cent Return on Sales	2.1	2.6	0.06	3.7	4.8	6.6	4.5	3.5	2.8	2.8
Per Cent Return on Stockholders' Equity †	6.8	7.3	0.1	7.8	9.8	17.1	9.3	5.8	4.3	4.1
Cash Dividends Declared	$ 611.2	$ 536.1	$ 555.0	$ 637.1	$ 657.8	$ 674.4	$ 443.1	$ 402.3	$ 390.3	$ 487.5
Stockholders:										
Number at end of year:										
Preferred	69,422	72,572	36,167	33,243	35,176	36,066	36,670	36,922	36,919	35,275
Common	788,137	817,632	779,499	773,635	831,877	899,329	948,452	975,300	1,047,214	1,078,780

(a) Does not include portion of payroll charged to own construction or other nonoperating accounts.
(b) Includes income taxes other than Federal income taxes in years prior to 1973.
(c) Includes only Federal income taxes in years prior to 1973.
(d) Includes only pretax (gains) or losses which were separately disclosed in annual financial statements to stockholders.
(e) Some of the reporting companies, either directly or indirectly through subsidiary companies, are engaged in activities which are not a part of the steel industry and make their reports on a consolidated basis. Hence, "Net Income" as reported by such companies includes the operations of activities not concerned with steelmaking. Net Income excludes $111.8 million in 1979 and $13.1 million in 1978 which represents a cumulative effect on prior years of changes in accounting practices.
† As of January 1 of each year.
‡ Costs included with wages and salaries.
* Reflects substantial impact of permanent plant closings.

TABLE 5—BLS—CONSUMER AND PRODUCER PRICE INDEXES OF STEEL PRICES (1967=100)

Source: United States Department of Labor, Bureau of Labor Statistics

Year	Consumer Price Index	Industrial Commodities	Iron and Steel					
			Steel Mill Products			Other Iron and Steel Products		
			Total	Finished	Semi-Finished	Pig Iron & Ferro-alloys	Scrap Iron & Steel	Fdry. & Forgings
1947	66.9	70.8	45.5	46.0	40.4	64.4	129.0	49.6
1948	72.1	76.9	52.0	52.4	48.7	76.8	162.9	57.3
1949	71.4	75.3	56.4	56.7	53.3	85.3	107.6	59.6
1950	72.1	78.0	59.4	59.5	57.8	87.3	139.3	60.6
1951	77.8	86.1	64.0	64.3	60.9	95.5	158.2	66.2
1952	79.5	84.1	65.4	65.8	62.3	98.8	152.0	66.5
1953	80.1	84.8	70.5	70.8	69.1	104.4	137.2	70.1
1954	80.5	85.0	73.8	73.8	74.2	103.9	106.2	71.7
1955	80.2	86.9	77.2	77.3	78.0	104.6	139.3	73.5
1956	81.4	90.8	83.8	83.8	83.5	114.3	176.3	81.0
1957	84.3	93.3	91.8	91.7	92.5	124.5	155.7	87.3
1958	86.6	93.6	95.0	94.9	95.9	125.1	124.8	89.9
1959	87.3	95.3	96.5	96.5	97.3	125.4	133.4	91.7
1960	88.7	95.3	96.4	96.3	97.1	120.4	110.2	92.4
1961	89.6	94.8	96.0	95.9	97.0	118.4	116.8	92.7
1962	90.6	94.8	95.8	95.7	97.0	113.9	95.2	92.8
1963	91.7	94.7	96.3	96.2	97.4	102.3	91.7	92.8
1964	92.9	95.2	97.1	97.0	98.6	97.1	109.4	93.8
1965	94.5	96.4	97.5	97.5	98.4	100.3	112.6	95.1
1966	97.2	98.5	98.9	98.8	98.8	100.3	106.6	96.8
1967	100	100	100	100	100	100	100	100
1968	104.2	102.5	102.5	102.5	102.3	100.9	93.0	103.0
1969	109.8	106.0	107.4	107.4	107.0	102.1	110.5	106.9
1970	116.3	110 0	114.3	114.3	112.2	114.6	138.9	112.6
1971	121.3	113.9	123.0	123.0	122.7	126.3	114.6	119.2
1972	125.3	117.9	130.4	130.4	130.9	125.4	121.8	124.3
1973	133.1	127.0	134.1	134.1	133.9	129.4	188.0	131.5
1974	147.7	153.8	170.0	170.0	169.0	188.1	353.2	161.4
1975	161.2	171.5	197.2	196.6	206.7	264.7	245.6	194.3
1976	170.5	182.4	209.8	209.0	223.1	261.6	259.0	218.6
1977	181.5	195.1	229.9	229.0	243.6	257.0	231.2	229.9
1978	195.3	209.3	254.4	253.4	270.6	259.7	264.6	248.7
1979	217.7	236.1	280.4	279.5	294.3	296.5	341.9	275.8
1979								
Jan.	204.7	219.9	271.5	270.6	285.5	279.9	317.9	261.2
Feb.	207.1	222.4	271.8	271.0	283.7	280.8	350.7	262.5
Mar.	209.3	225.1	272.4	271.7	283.7	280.8	402.8	268.9
Apr.	211.8	228.6	274.9	273.9	291.6	286.5	364.9	271.3
May	214.3	231.1	276.6	275.6	291.6	296.2	328.6	272.8
June	216.9	233.5	277.3	276.4	291.8	297.5	370.6	274.5
July	219.4	237.2	284.2	283.1	301.2	305.8	346.1	274.6
Aug.	221.5	240.3	284.6	283.5	300.0	305.7	332.0	276.0
Sept.	223.7	243.8	284.8	283.8	300.0	304.5	316.7	277.7
Oct.	225.6	248.5	288.4	287.6	300.0	305.0	311.5	285.5
Nov.	227.6	250.2	288.7	287.9	301.0	307.6	328.2	291.5
Dec.	230.0	252.8	289.3	288.5	301.1	307.6	333.3	293.1

EMPLOYMENT AND WAGE DATA

Number of Employees—Monthly Average

Hours Worked Per Week

Wages and Salaries Paid

Payroll Cost Per Hour Worked

Employment Cost Per Hour Worked

Collective Bargaining Agreements

Output Per Man-hour

Occupational Injury/Illness

Age and Length of Service

The data on number of employees, hours worked, wages and salaries paid, payroll cost per hour and employment cost per hour cover only those employees engaged in the production and sale of iron and steel products as reported by companies comprising about 92% of total raw steel production. This contrasts with employment data shown on page 15 of the Financial Section which cover all operations of reporting companies.

Indexes on output per manhour in the iron and steel industry are those compiled by the United States Department of Labor, Bureau of Labor Statistics.

TABLE 3—EMPLOYMENT

(Covering the consolidated statements including all the affiliated interests of the parent companies rendering these reports)

	1979	1978 R	1977	1976	1975	1974	1973	1972	1971	1970
Labor: (All employees)										
Number of Employees:										
Average monthly number of employees receiving wages and salaries during the year:										
Wage employees	469,005	457,540	443,964	444,829	453,385	508,904	509,777	479,029	486,099	515,980
Salaried employees	172,691	167,706	165,099	162,347	163,273	165,968	161,026	159,231	165,963	173,659
Total Employees	641,696	625,246	609,063	607,176	616,658	674,872	670,803	638,260	652,062	689,639
Man Hours Actually Worked During the Year: (In millions)										
Wage employees	897.4	872.8	826.3	828.1	814.4	975.7	991.0	904.4	885.0	896.3
Salaried employees	339.3	337.2	333.0	328.4	332.9	339.1	329.3	320.8	334.1	323.6
Total Hours	1,236.7	1,210.0	1,159.3	1,156.5	1,147.3	1,314.8	1,320.3	1,225.2	1,219.1	1,219.9
Total Payroll: (In millions) †										
Wage employees	$10,427.5	$ 9,160.8	$7,878.7	$7,168.5	$6,380.4	$6,855.2	$5,989.4	$5,064.8	$4,465.0	$4,465.1
Salaried employees	4,434.2	3,937.9	3,498.0	3,229.5	3,018.3	2,858.5	2,440.8	2,215.9	2,089.9	2,031.0
Total Payroll	14,861.7	13,098.7	11,376.7	10,398.0	9,398.7	9,713.7	8,430.2	7,280.7	6,554.9	6,496.1
Less portion of payroll included above but charged to own construction or other non-operating accounts	130.5	122.7	157.9	175.7	165.9	133.7	117.8	102.9	100.5	103.7
Balance	14,731.2	12,976.0	11,218.8	$10,222.3	$9,232.8	$9,580.0	$8,312.4	$7,177.8	$6,454.4	$6,392.4
Memo:										
Employment Data: (a)										
Number of employees in steel industry (avg. monthly) (b)	417,543	412,151	415,147	418,925	420,929	475,024	470,077	443,754	451,586	490,967
Man hours in the steel industry (In millions)	820.2	817.9	800.2	804.1	781.0	929.3	939.7	866.3	858.4	948.7
Wages and salaries in the steel industry (Millions of dollars)	$10,567.2	$ 9,421.2	$8,473.3	$7,666.2	$6,334.6	$6,941.0	$6,238.6	$5,396.2	$4,791.4	$4,830.5

(a) For steel activities of companies reporting in financial table 2. Does not represent the same universe as those included in the Employment Section.
(b) Adjusted to reflect turnover of employees.
"Employment Data" steel industry includes operation of coke ovens, blast furnaces, steelmaking furnaces and finishing mills, etc., and the sale of the products thereof, and "Other" includes mining and quarrying operations, transportation, warehousing, fabrication and other non-steel producing activities. For details of "steel" employment see table 6.
† Wage and salaried payroll includes payments applicable to the prior year.

TABLE 4—BALANCE SHEET, CAPITAL EXPENDITURES

(Covering the consolidated statements including all the affiliated interests of the parent companies rendering these reports)

(Millions of dollars)

ASSETS	1979	1978 [R]	1977	1976	1975	1974	1973	1972	1971	1970
Current Assets:										
Cash	$ 882.5	$ 708.3	$551.8	$ 551.7	$ 532.8	$ 616.8	$ 578.5	$ 506.3	$ 561.8	$ 592.2
United States Government securities including tax notes and other marketable securities	1,118.7	1,370.0	1,012.4	1,052.2	1,188.9	2,901.2	1,826.2	508.8	557.9	318.8
Receivables, less allowances for doubtful accounts	6,665.6	5,835.8	4,434.7	3,565.2	3,398.4	4,091.6	3,222.3	2,941.3	2,201.3	2,358.7
Inventories	7,153.2	6,480.1	5,898.2	6,408.5	5,390.8	4,394.1	3,728.7	4,105.8	3,932.1	4,053.5
Other Current Assets	178.8	186.2	443.0	251.0	239.5	208.8	156.5	148.7	170.8	178.8
Total Current Assets	15,998.8	14,580.4	12,340.1	11,828.6	10,750.4	12,212.5	9,512.2	8,210.9	7,423.9	7,502.0
Miscellaneous investments and other assets	2,998.1	3,009.0	2,867.0	2,613.1	2,437.5	2,112.3	1,894.7	1,995.7	1,790.6	1,714.3
Fixed Assets:										
Property, plant and equipment	44,537.5	42,280.3	41,406.7	39,879.2	37,145.0	34,500.3	33,593.7	32,609.2	31,858.6	30,839.2
Less—Depreciation, depletion and amortization	22,844.6	22,008.2	21,684.5	21,228.6	20,286.1	19,601.1	19,114.2	18,194.0	17,396.6	16,694.1
Net Fixed Assets	21,692.9	20,272.1	19,722.2	18,650.6	16,858.9	14,899.2	14,479.5	14,415.2	14,462.0	14,145.1
Intangibles	53.0	56.9	55.1	110.2	98.7	82.9	85.1	57.9	57.0	50.7
Deferred charges	446.2	441.2	432.6	361.5	274.4	199.5	161.2	157.3	156.7	173.5
TOTAL ASSETS	41,189.0	38,359.6	35,417.0	33,564.0	30,419.9	29,506.4	26,132.7	24,837.0	23,890.2	23,585.6
LIABILITIES AND STOCKHOLDERS' EQUITY										
Current Liabilities:										
Accrued taxes, including Federal income taxes	1,249.8	1,168.3	771.5	865.1	897.5	1,846.3	1,104.8	886.6	755.1	655.0
Long-term debt maturing within one year	354.7	287.8	300.6	232.7	209.4	255.6	186.2	232.0	270.2	208.9
All other current liabilities	7,845.5	6,825.0	5,687.8	5,016.7	4,204.3	4,627.6	3,674.0	3,222.1	2,886.3	3,070.3
Total Current Liabilities	9,450.0	8,281.1	6,759.9	6,114.5	5,311.2	6,729.5	4,965.0	4,340.7	3,911.6	3,934.2
Long-term debt less amount maturing within one year	9,211.1	8,763.0	7,958.9	6,966.5	5,705.3	4,651.2	4,962.9	5,229.6	5,144.4	5,133.9
Reserves for future Federal income taxes, insurance, contingencies, deferred credits, etc.	3,539.9	3,047.9	2,786.8	2,420.8	2,184.9	1,867.3	1,641.5	1,574.8	1,530.0	1,483.8
Minority interest in companies not wholly owned	577.0	574.0	307.7	34.9	26.3	15.2	49.8	17.4	22.8	67.1
Stockholders' Equity:										
Preferred stock	209.2	212.6	231.6	106.8	108.2	111.3	114.6	117.4	118.6	120.1
Common stock	3,265.6	3,201.1	3,221.4	3,172.6	3,052.0	3,046.4	3,047.5	3,128.5	3,069.7	3,016.7
Capital surplus	1,650.1	1,629.3	1,416.9	1,396.6	1,352.6	1,292.1	1,270.7	1,243.3	1,273.1	1,224.3
Income reinvested in business	13,286.1	12,650.6	12,733.8	13,351.3	12,679.4	11,793.4	10,080.7	9,185.3	8,820.0	8,605.5
Total Stockholders' Equity (December 31)	18,411.0	17,693.6	17,603.7	18,027.3	17,192.2	16,243.2	14,513.5	13,674.5	13,281.4	12,966.6
TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY	41,189.0	38,359.6	35,417.0	33,564.0	30,419.9	29,506.4	26,132.7	24,837.0	23,890.2	23,585.6
Capital Expenditures	$ 3,367.1	$ 2,595.2	$2,850.3	$ 3,252.9	$ 3,179.4	$ 2,114.7	$ 1,399.9	$ 1,174.3	$ 1,425.0	$ 1,736.2
Estimated cost to complete construction in progress (In millions)	$ 3,809.9	...	...	...	...	...	...	...	...	...

TABLE 9—BLS INDEX OF OUTPUT PER MAN-HOUR IN THE STEEL INDUSTRY (ALL EMPLOYEES)

SOURCE: United States Department of Labor, Bureau of Labor Statistics

Year	1967=100
1957	84.3
1958	77.9
1959	87.5
1960	82.3
1961	84.9
1962	89.2
1963	93.2
1964	97.2
1965	101.1
1966	103.2
1967	100.0
1968	103.5
1969	104.0
1970	101.3
1971	106.2
1972	112.7
1973	123.5
1974	123.5
1975	107.6
1976	114.5
1977	116.0
1978	121.8
Average Annual Increase 1957–1978	2.0%*

* Based on least squares method.

NOTE: Although the output per man-hour data relate output to one input—labor time—they do not measure the specific contribution of labor, of capital, or of any other factor to production. In short, they do not reflect solely changes in the productiveness of labor. Rather, they reflect the joint effect of a number of interrelated influences such as changes in technology, capital investment per worker, utilization of capacity, layout and flow of material, skill of the work force, managerial skill, and labor-management relations. See Bureau of Labor Statistics Publication of November 1964 entitled *Indices of Output Per Manhour 1957–1963, Steel Industry* for further definition and method of development of this index. It should be also noted that industry shipments of finished steel products comprise the largest factor in the output sector of the equation. Shipments in a given year such as 1974 may be significantly affected by abnormal increases or decreases in producer's mill inventories of finished and/or semi-finished products.

NOTE: 1979 data was not available at the time this Report went to press.

SHIPMENTS—STEEL PRODUCTS

Products

Grades

Markets

Data in this section are expressed in terms of Gross Shipments and Net Shipments. Gross shipments represent the aggregate tonnage shipped by reporting companies including steel consumed by the companies in their own construction, maintenance, repair and operations, as well as in their own manufacture of fabricated products. Net shipments eliminate tonnage duplication by deducting from the gross total those shipments from one reporting company to another reporting company for conversion, further processing or resale.

TABLE 6—NUMBER OF EMPLOYEES, HOURS WORKED AND PAYROLL COST IN IRON AND STEEL INDUSTRY

(Covering only those employees engaged in the production and sale of iron and steel products as reported on AIS 1)

Year	Employees Receiving Wages					Employees Receiving Salaries			All Employees Receiving Wages and Salaries					Year
	Average Number of Employees †	Total Hours Worked (000)	Avg. Hrs. Worked Per Week Per Employee	Total Wages * (000)	Average Payroll Cost Per Hour	Average Number of Employees †	Total Hours Worked (000)	Total Salaries * (000)	Average Number of Employees †	Total Hours Worked (000)	Avg. Hrs. Worked Per Week Per Employee	Total Wages and Salaries * (000)	Average Payroll Cost Per Hour	
1979	341,931	669,045	37.5	$8,397,211	$12.551	111,250	225,033	$3,085,197	453,181	894,078	37.8	$11,482,408	$12.843	1979
1978	339,155	669,720	37.9	7,547,510	11.270	110,042	222,462	2,778,779	449,197	892,182	38.1	10,326,289	11.574	1978
1977	337,396	645,853	36.7	6,620,557	10.251	114,992	230,051	2,622,822	452,388	875,904	37.1	9,243,379	10.553	1977
1976	339,021	645,748	36.4	5,897,181	9.132	115,107	231,038	2,434,283	454,128	876,786	36.9	8,331,464	9.502	1976
1975	339,945	621,691	35.1	5,166,768	8.311	117,217	233,214	2,279,525	457,162	854,905	35.9	7,446,293	8.710	1975
1974	393,212	771,977	37.7	5,732,017	7.425	119,183	241,150	2,170,827	512,395	1,013,127	37.9	7,902,844	7.800	1974
1973	392,851	787,955	38.5	4,972,953	6.311	115,763	235,000	1,837,475	508,614	1,022,955	38.6	6,810,428	6.658	1973
1972	364,074	709,894	37.3	4,172,287	5.877	114,294	230,408	1,677,013	478,368	940,302	37.6	5,849,300	6.221	1972
1971	366,982	690,431	36.1	3,600,764	5.215	120,287	241,070	1,582,178	487,269	931,501	36.7	5,182,942	5.564	1971
1970	403,115	771,886	36.7	3,679,658	4.767	128,081	257,852	1,554,077	531,196	1,029,738	37.2	5,233,735	5.082	1970
1969	415,301	835,154	38.6	3,813,449	4.566	128,718	263,821	1,517,511	544,019	1,098,975	38.7	5,330,960	4.851	1969
1968	420,684	829,837	37.7	3,570,606	4.303	130,873	265,280	1,443,005	551,557	1,095,117	38.0	5,013,611	4.578	1968
1967	424,153	818,486	37.0	3,330,529	4.069	130,990	265,231	1,355,014	555,143	1,083,717	37.4	4,685,543	4.324	1967
1966	446,712	889,190	38.2	3,571,600	4.017	128,835	263,312	1,322,503	575,547	1,152,502	38.4	4,894,103	4.247	1966
1965	458,539	901,984	37.7	3,549,102	3.935	125,312	256,224	1,247,956	583,851	1,158,208	38.0	4,797,058	4.142	1965
1964	434,654	869,447	38.3	3,300,516	3.796	118,901	244,658	1,171,823	553,555	1,114,105	38.5	4,472,339	4.014	1964
1963	405,536	790,006	37.4	2,913,214	3.687	114,753	233,369	1,104,721	520,289	1,023,375	37.7	4,017,935	3.926	1963
1962	402,662	768,496	36.6	2,783,784	3.622	117,876	239,515	1,120,322	520,538	1,008,011	37.1	3,904,106	3.873	1962
1961	405,924	775,030	36.6	2,713,735	3.501	117,381	237,827	1,083,406	523,305	1,012,857	37.1	3,797,141	3.749	1961
1960	449,888	840,322	35.7	2,813,992	3.349	121,664	246,553	1,075,763	571,552	1,086,875	36.4	3,889,755	3.579	1960

† Average of the monthly number of employees receiving pay after adjustment for turnover.

* Does not include other employment costs such as F.I.C.A. taxes, unemployment compensation taxes, state disability taxes, supplemental unemployment benefits, savings and vacation plan benefits, pensions and insurance.

Similar data not available prior to 1934.

Data for 1977 exclude payroll and benefit costs related to individual company shutdown of facilities as disclosed separately in financial statements.

TABLE 7—TOTAL EMPLOYMENT COST PER HOUR—WAGE EMPLOYEES IN THE IRON AND STEEL INDUSTRY

(Covering only those employees engaged in the production of iron and steel products as reported on AIS 1)

Year	Pay for Hours Worked						Comparison	Other Payroll Costs						Year
	Straight Time					Subtotal								
	Regular (1)	Shift Differential (2)	Sunday Premium (3)	Overtime Premium (4)	Premium For Work On Holidays (5)	Pay For Hours Worked (6)	Average Hourly Earnings In Steel (BLS) (7)	Pay For Holidays Not Worked (8)	Vacation Pay (9)	Allowances and Adjustments (10)	Total Payroll Cost Per Hour (11)	Employee Benefits Cost Per Hour (12)	Total Employment Cost Per Hour (13)	
1979	$9.822	$.121	$.368	$.427	$.281	$11.019	$10.77	$.247	$1.230	$.055	$12.551	$3.370	$15.921	1979
1978	8.890	.120	.333	.391	.242	9.976	9.70	.194	1.051	.049	11.270	3.033	14.303	1978
1977	8.029	.117	.280	.294	.193	8.913	8.67	.200	1.015	.123	10.251	2.785	13.036	1977
1976	7.247	.115	.249	.239	.148	7.998	7.86	.177	.912	.045	9.132	2.612	11.744	1976
1975	6.634	.080	.218	.171	.124	7.227	7.11	.170	.874	.040	8.311	2.279	10.590	1975
1974	5.921	.062	.212	.235	.120	6.550	6.38	.114	.653	.108	7.425	1.653	9.078	1974
1973	5.159	.062	.135	.218	.114	5.688	5.56	.092	.507	.024	6.311	1.370	7.681	1973
1972	4.813	.060	.087	.161	.100	5.221	5.15	.101	.528	.027	5.877	1.198	7.075	1972
1971	4.242	.060	.075	.126	.071	4.574	4.57	.090	.519	.032	5.215	1.046	6.261	1971
1970	3.926	.054	.071	.118	.067	4.236	4.22	.077	.431	.023	4.767	.910	5.677	1970
1969	3.776	.050	.072	.154	.068	4.120	4.09	.053	.370	.023	4.566	.809	5.375	1969
1968	3.553	.049	.067	.126	.065	3.860	3.82	.049	.376	.018	4.303	.729	5.032	1968
1967	3.398	.048	.063	.091	.056	3.656	3.62	.056	.349	.008	4.069	.689	4.758	1967
1966	3.353	.049	.065	.110	.059	3.636	3.58	.049	.324	.008	4.017	.616	4.633	1966
1965	3.261	.049	.064	.106	.056	3.536	3.46	.048	.343	.008	3.935	.540	4.475	1965
1964	3.177	.049	.061	.090	.054	3.431	3.41	.048	.310	.007	3.796	.559	4.355	1964
1963	3.166	.047	.055	.069	.053	3.390	3.36	.050	.240	.007	3.687	.560	4.247	1963
1962	3.141	.046	.052	.052	.041	3.332	3.29	.058	.224	.008	3.622	.533	4.155	1962
1961	3.054	.045	.050	.048	.044	3.241	3.20	.055	.200	.005	3.501	.488	3.989	1961
1960	2.916	.046	.050	.045	.037	3.094	3.08	.054	.195	.006	3.349	.471	3.820	1960
Incr. 1979 vs. 1960	$6.906	$.075	$.318	$.382	$.244	$7.925	$7.69	$.193	$1.035	$.049	$9.202	$2.899	$12.101	Incr. 1979 vs. 1960
% Incr. 1979 vs. 1960	237%	163%	636%	849%	659%	256%	250%	357%	531%		275%	615%	317%	% Incr. 1979 vs. 1960

Data for 1977 and 1979 excludes payroll and benefit costs related to individual company shutdown of facilities as disclosed separately in financial statements.

Similar data not available prior to 1940.

Notes Pertaining to Table Above by Column Numbers

(1) Includes nonincentive bonus where applicable and Cost of Living Adjustment. The job class rate as established effective August 1, 1979 includes $3.00 Cost of Living Adjustment roll in. The Cost of Living Adjustment subsequent to August 1, 1979 reached a total at year end of 23¢ per hour worked as shown below.

Cost of Living Adjustment Per Hour Worked

	1972	*1973*	*1974*	*1975*	*1976*	*1977*	*1978*	*1979*
February		$.06	$.39	$.56	$.19	$.14	$.39	$.25
May		.13	.15	.64	.23	.13	.51	.47
August	$.01	.21	.28			.25		
November	.03	.30	.44	.10	.08	.32	.13	.23

(3) Sunday premium pay was initiated September 1, 1956.

(5) and (8) Prior to 1953, cost of pay for holidays and premium for holidays worked were included in overtime premium. Pay for holidays not worked was instituted in 1952.

(7) BLS average hourly earnings for 1965 do not include the one-time payment made by most companies in late 1965 resulting from the Extension Agreement covering the period from May 1, 1965 through August 31, 1965 which provided for an employment cost accrual of 11.5¢ per hour worked.

(9) Includes regular vacation and company liability for vacation time-off and/or pay in lieu of SVP. Appropriate adjustments have been made beginning with the year 1963.

(10) Allowances include earnings protection plan payments, reporting allowance, allowance for participation in military and naval training programs, jury duty, witness pay, funeral leave, rate retention under consent decree and similar actions, severance pay, $150 bonus paid under the Experimental Negotiating Agreement with the Steelworkers Union and/or other unions, and retroactive payments.

(12) Supplemental unemployment benefits and savings and vacation plan benefits were (other than payroll portion) initiated August 3, 1956, and July 1, 1962, respectively.

Standard Hourly Wage Rate Increases and Minimum Wage Rates in the Iron and Steel Industry (per Agreement with Steelworkers Union) 1956–1979**

Effective Date	Standard Hourly Wage Rate Increases Per Hour: Job Class 1 and 2	Increment/ Job Class	Avg. All Job Classes	Minimum Std. Hourly Wage Rate (Job Class 1 and 2)
August 3, 1956	$.075	$.003	$.095	$1.820
January 1, 1957	.030		.030	1.850
July 1, 1957	.110	.002	.122	1.960
January 1, 1958	.050		.050	2.010
July 1, 1958	.110	.002	.122	2.120
January 1, 1959	.010		.010	2.130
December 1, 1960	.070	.002	.083	2.200
October 1, 1961	.085	.001	.092	2.285
September 1, 1965	.100	.003	.121	2.385
August 1, 1967	.060	.002	.076	2.445
August 1, 1968	.200	.005	.236	2.645
August 1, 1969	.120	.003	.142	2.765
August 1, 1970	.120	.002	.135	2.885
August 1, 1971	.500	.005	.537	3.385
August 1, 1972	.125	.004	.154	3.510
August 1, 1973	.125	.004	.155	3.635
May 1, 1974	.670	.002	.685	4.305
August 1, 1975	.890	.003	.913	5.195
August 1, 1976	.480	.004	.511	5.675
May 1, 1977	.340	.004	.371	6.015
August 1, 1977	.200		.200	6.215
February 1, 1978	.100		.100	6.315
August 1, 1978	.800	.003	.823	7.115
February 1, 1979	.100		.100	7.215
August 1, 1979	.820*	.003	.843	8.035

*See footnote (1) for explanation.

**Note: As of August 1, 1979, the hourly wage rate varies from a minimum (Job Class 1 and 2) of $8.035 to a maximum (Job Class 34) of $11.779 with an increment of 11.7¢ per hour between job classes.

TABLE 8—COLLECTIVE BARGAINING AGREEMENTS WITH UNITED STEELWORKERS UNION

Year	Effective Date of New Agreement	Periods of General Steel Strikes	Length (Calendar Days)
1946	Feb. 15, 1946	Jan. 21—Feb. 17	28
1947	Apr. 22, 1947	...	...
1948	July 16, 1948	...	...
1949	Nov. 11, 1949	Oct. 1—Nov. 11	42
1950	Nov. 30, 1950	...	...
1952	July 26, 1952	Apr. 29—May 2 June 2—July 26	3 55
1953	June 12, 1953	...	...
1954	July 1, 1954	...	...
1955	June 30, 1955	July 1	A Few Hours
1956	Aug. 3, 1956	July 1—Aug. 3	34
1960	Jan. 4, 1960	July 15—Nov. 7, 1959	116
1962	Apr. 6, 1962	...	...
1963	June 29, 1963	...	...
1965	Sept. 1, 1965	...	...
1968	Aug. 1, 1968	...	...
1971	Aug. 1, 1971	...	...
1974	Aug. 1, 1974	...	...
1977	Aug. 1, 1977	...	...
1980	Aug. 1, 1980	...	...

NOTE: Some companies have agreements with starting dates other than those listed above.

TABLE 10—OCCUPATIONAL INJURY/ILLNESS

(Reported by companies comprising 94% of total raw steel production)

	1979	1978	1977	1976
1. Aggregate number of man-hours (millions)	892	884	869	870
2. OSHA recordable injuries/illnesses:				
a. Fatalities	64	55	55	51
b. Lost workday cases	14,159	14,026	14,013	14,435
c. Other medical treatment cases	28,856	28,453	28,977	30,268
d. Total (2a through 2c)	43,079	42,534	43,045	44,754
3. Frequency rate (number of injuries/illnesses per 200,000 man-hours worked)	9.654	9.623	9.908	10.285
4. OSHA workdays lost (thousands)	323	311	309	300
5. Severity rate (days lost per 200,000 man-hours worked)	72	70	71	69

NOTE: Recordable injuries are reported as specified by the Bureau of Labor Statistics, U.S. Department of Labor pursuant to Section 24(a) of the Occupational Safety and Health Act of 1970.

TABLE 11—WAGE EMPLOYEES IN THE IRON AND STEEL INDUSTRY CLASSIFIED BY AGE AND BY LENGTH OF SERVICE

(Covering only those employees who were engaged in the production of iron and steel products as reported by companies representing 92% in 1978 and 1977 of the total basic wage employment as reported on AIS 1)

Years of Service	1978 No. of Employees*	1978 %	1977 No. of Employees*	1977 %
Under 5	73,713	22.0	78,252	23.3
5 to 9	68,203	20.3	54,759	16.2
10 to 14	48,284	14.4	46,007	13.7
15 to 24	49,730	14.8	59,220	17.6
25 to 34	76,608	22.8	76,817	22.8
35 and over	19,149	5.7	21,041	6.3
TOTAL	335,687	100.0	336,096	100.0
Average service	15.8		16.4	

Years of Age	1978 No. of Employees*	1978 %	1977 Employees* No. of	1977 %
Under 25	46,259	13.8	42,915	12.8
25 to 34	89,619	26.7	84,657	25.2
35 to 44	60,945	18.2	61,220	18.2
45 to 54	78,329	23.3	83,870	24.9
55 to 64	59,168	17.6	61,772	18.4
65 and over	1,367	0.4	1,662	0.5
TOTAL	335,687	100.0	336,096	100.0
Average age	40.6		41.3	

* Employees at year end, including employees on layoff, disability, and leave of absence other than military. Excludes employees terminated or retired during the year. 1979 data was not available at the time this Report went to press.
Similar data not available prior to 1956.

TABLE 12—SHIPMENTS OF STEEL PRODUCTS—1979
ALL GRADES—(INCLUDING CARBON, ALLOY AND STAINLESS)

(Net tons)

Steel Products	Total Gross Shipments	Less Shipments to Reporting Companies	Total Net Shipments	Per Cent of Total Net Shipments
Ingots and steel castings	642,074	137,705	504,369	0.5
Blooms, slabs, billets, sheet bars	2,200,319	104,871	2,095,448	2.1
Skelp	128,597	94,025	34,572	
Wire rods	3,162,030	300,741	2,861,289	2.9
Total Semi-Finished	6,133,020	637,342	5,495,678	5.5
Structural shapes (heavy)	5,303,196	442	5,302,754	5.3
Steel piling	293,365		293,365	0.3
Plates	9,065,149	29,964	9,035,185	9.0
Total Shapes and Plates	14,661,710	30,406	14,631,304	14.6
Rails—Standard (over 60 lbs.)	1,122,407		1,122,407	1.1
—All other	47,821		47,821	0.1
Joint bars	19,179		19,179	
Tie plates	337,257		337,257	0.3
Track spikes	101,409		101,409	0.1
Wheels (rolled and forged)	179,662		179,662	0.2
Axles	218,212		218,212	0.2
Total Rails and Accessories	2,025,947		2,025,947	2.0
Bars—Hot Rolled	9,723,407	1,230,617	8,492,790	8.5
—Bar-Size light shapes	1,476,995	11,429	1,465,566	1.5
—Reinforcing	5,377,758	74,537	5,303,221	5.3
—Cold finished	2,246,921	1,656	2,245,265	2.2
Tool steel	95,839	1,279	94,560	0.1
Total Bars and Tool Steel	18,920,920	1,319,518	17,601,402	17.6
Pipe and tubing—Standard	2,066,843	114,386	1,952,457	1.9
—Oil country goods	2,577,087	119,453	2,457,634	2.5
—Line	1,573,260	4,687	1,568,573	1.6
—Mechanical	1,535,377	28,567	1,506,810	1.5
—Pressure	177,382	7,840	169,542	0.2
—Structural	542,794	1,810	540,984	0.5
—Stainless	48,598	2,218	46,380	
Total Pipe and Tubing	8,521,341	278,961	8,242,380	8.2
Wire—Drawn	1,944,072	26,900	1,917,172	1.9
—Nails and staples	258,175	886	257,289	0.2
—Barbed and twisted	67,284		67,284	0.1
—Woven wire fence	123,849	1,840	122,009	0.1
—Bale ties and baling wire	84,909	5	84,904	0.1
Total Wire and Wire Products	2,478,289	29,631	2,448,658	2.4
Black plate	630,017	1,427	628,590	0.6
Tin plate	4,603,790		4,603,790	4.6
Tin Free steel	1,002,888		1,002,888	1.0
Tin Mill products—All other	74,735		74,735	0.1
Total Tin Mill Products	6,311,430	1,427	6,310,003	6.3
Sheets—Hot rolled	17,192,949	1,197,823	15,995,126	16.0
—Cold rolled	17,349,138	65,470	17,283,668	17.2
Sheets & strip—Galvanized—Hot dipped	5,814,276	3,825	5,810,451	5.8
—Electrolytic	531,350	72	531,278	0.5
—All other metallic coated	976,532	1,458	975,074	1.0
—Electrical	697,085	180	696,905	0.7
Strip—Hot rolled	1,109,514	125,564	983,950	1.0
—Cold rolled	1,234,751	4,446	1,230,305	1.2
Total Sheets and Strip	44,905,595	1,398,838	43,506,757	43.4
TOTAL SHIPMENTS	103,958,252	3,696,123	100,262,129	100.0

Similar data not available prior to 1933.

TABLE 13—SHIPMENTS OF STEEL PRODUCTS—1979
ALL GRADES (INCLUDING CARBON, ALLOY AND STAINLESS)

(Net tons)

Steel Products	Carbon	%	Alloy	%	Stainless	%	Total	%
Ingots and steel castings	251,412	0.3	235,951	2.1	17,006	1.3	504,369	0.5
Blooms, slabs, billets, sheet bars	1,260,034	1.4	784,583	7.1	50,831	3.7	2,095,448	2.1
Skelp	34,362		210				34,572	
Wire rods	2,767,980	3.2	52,802	0.5	40,507	3.0	2,861,289	2.9
Total Semi-Finished	4,313,788	4.9	1,073,546	9.7	108,344	8.0	5,495,678	5.5
Structural shapes (heavy)	4,514,522	5.1	788,232	7.2			5,302,754	5.3
Steel piling	272,735	0.3	20,630	0.2			293,365	0.3
Plates	6,803,069	7.8	2,086,309	18.9	145,807		9,035,185	9.0
Total Shapes and Plates	11,590,326	13.2	2,895,171	26.3	145,807	10.7	14,631,304	14.6
Rails:								
Standard (over 60 lbs.)	1,091,923	1.2	30,484	0.3			1,122,407	1.1
All other	47,821	0.1					47,821	0.1
Joint bars	19,179						19,179	
Tie plates	337,257	0.4					337,257	0.3
Track spikes	101,409	0.1					101,409	0.1
Wheels (rolled and forged)	173,103	0.2	6,559				179,662	0.2
Axles	218,212	0.3					218,212	0.2
Total Rails and Accessories	1,988,904	2.3	37,043	0.3			2,025,947	2.0
Bars:								
Hot rolled	5,875,146	6.7	2,572,104	23.3	45,540	3.3	8,492,790	8.5
Bar-Size light shapes	1,465,566	1.7	(Included in Hot Rolled Bars)				1,465,566	1.5
Reinforcing	5,272,155	6.0	31,066	0.3			5,303,221	5.3
Cold finished	1,815,557	2.0	321,467	2.9	108,241	8.0	2,245,265	2.2
Tool steel			94,560	0.9			94,560	0.1
Total Bars and Tool Steel	14,428,424	16.4	3,019,197	27.4	153,781	11.3	17,601,402	17.6
Pipe and tubing:								
Standard	1,943,674	2.2	8,783	0.1			1,952,457	1.9
Oil country goods	1,711,655	2.0	745,979	6.8			2,457,634	2.5
Line	1,320,920	1.5	247,653	2.2			1,568,573	1.6
Mechanical	965,812	1.1	540,998	4.9			1,506,810	1.5
Pressure	127,147	0.1	42,395	0.4			169,542	0.2
Structural	539,778	0.6	1,206				540,984	0.5
Stainless					46,380		46,380	
Total Pipe and Tubing	6,608,986	7.5	1,587,014	14.4	46,380	3.4	8,242,380	8.2
Wire:								
Drawn	1,860,161	2.1	24,566	0.2	32,445	2.4	1,917,172	1.9
Nails and staples	257,289	0.3					257,289	0.2
Barbed and twisted	67,284	0.1					67,284	0.1
Woven wire fence	122,009	0.1					122,009	0.1
Bale ties and baling wire	84,904	0.1					84,904	0.1
Total Wire and Wire Products	2,391,647	2.7	24,566	0.2	32,445	2.4	2,448,658	2.4
Black plate	628,590	0.7					628,590	0.6
Tin plate	4,603,790	5.2					4,603,790	4.6
Tin Free Steel	1,002,888	1.2					1,002,888	1.0
All other T.M.P.	74,735	0.1					74,735	0.1
Total Tin Mill Products	6,310,003	7.2					6,310,003	6.3
Sheets:								
Hot rolled	14,493,905	16.5	1,479,557	13.6	21,664	1.6	15,995,126	16.0
Cold rolled	16,616,245	18.9	105,403	0.9	562,020	41.3	17,283,668	17.2
Sheets and strip:								
Galvanized:								
Hot dipped	5,768,924	6.6	41,527	0.4			5,810,451	5.8
Electrolytic	531,278	0.6					531,278	0.5
All other metallic coated	975,027	1.1	47				975,074	1.0
Electrical	112,941	0.1	583,964	5.3			696,905	0.7
Strip:								
Hot rolled	857,761	1.0	115,082	1.0	11,107	0.8	983,950	1.0
Cold rolled	890,825	1.0	60,383	0.5	279,097	20.5	1,230,305	1.2
Total Sheets and Strip	40,246,906	45.8	2,385,963	21.7	873,888	64.2	43,506,757	43.4
TOTAL NET SHIPMENTS	87,878,984	100.0	11,022,500	100.0	1,360,645	100.0	100,262,129	100.0
Shipments to reporting companies	3,323,642		330,754		41,727		3,696,123	
TOTAL GROSS SHIPMENTS	91,202,626		11,353,254		1,402,372		103,958,252	

Similar data not available prior to 1950.

SHIPMENTS
By Product

TABLE 14—NET SHIPMENTS ALL GRADES (INCLUDING CARBON,

(Thousands

Steel Products	1979 Ship-ments	1979 %	1978 Ship-ments	1978 %	1977 Ship-ments	1977 %	1976 Ship-ments	1976 %
Ingots and steel castings	504	0.5	516	0.5	423	0.5	488	0.6
Blooms, slabs, billets, sheet bars	2,095	2.1	1,969	2.0	1,736	1.9	1,967	2.2
Tube rounds	†	†	†	†	†	†	†	†
Skelp	35		31	0.1	31		28	
Wire rods	2,861	2.9	2,554	2.6	1,804	2.0	1,901	2.1
Structural shapes (heavy)	5,303	5.3	4,667	4.7	4,035	4.4	3,857	4.3
Steel piling	293	0.3	360	0.4	347	0.4	330	0.4
Plates	9,035	9.0	8,601	8.8	7,529	8.3	7,160	8.0
Rails—Standard (over 60 lbs.)	1,122	1.1	946	1.0	1,109	1.2	1,303	1.5
—All other	48	0.1	38		37	0.1	37	
Joint bars	19		14		17		19	
Tie plates	337	0.3	255	0.2	264	0.3	250	0.3
Track spikes	101	0.1	97	0.1	103	0.1	105	0.1
Wheels (rolled and forged)	180	0.2	165	0.2	189	0.2	175	0.2
Axles	218	0.2	188	0.2	144	0.2	128	0.2
Bars—Hot rolled	8,493	8.5	8,758	9.0	8,369	9.2	7,822	8.8
—Bar-Size light shapes	1,466	1.5	1,277	1.3	993	1.1	842	0.9
—Reinforcing	5,303	5.3	4,704	4.8	4,179	4.6	3,876	4.3
—Cold finished	2,245	2.2	2,084	2.1	1,794	1.9	1,618	1.8
Tool steel	95	0.1	92	0.1	85	0.1	76	0.1
Pipe and tubing—Standard	1,952	1.9	2,054	2.1	1,853	2.0	1,782	2.0
—Oil country goods	2,458	2.5	2,647	2.7	2,405	2.6	1,678	1.9
—Line	1,569	1.6	1,571	1.6	1,330	1.5	1,019	1.1
—Mechanical	1,507	1.5	1,480	1.5	1,362	1.5	1,260	1.4
—Pressure	170	0.2	184	0.2	218	0.2	197	0.2
—Structural	541	0.5	423	0.4	290	0.3	298	0.3
—Stainless	46		40	0.1	32	0.1	31	0.1
Wire—Drawn	1,918	1.9	1,968	2.0	1,894	2.1	1,921	2.1
—Nails and staples	257	0.2	289	0.3	278	0.3	281	0.3
—Barbed and twisted	67	0.1	58	0.1	55		71	0.1
—Woven wire fence	122	0.1	109	0.1	113	0.1	134	0.1
—Bale ties and baling wire	85	0.1	87	0.1	60	0.1	54	0.1
Black plate	629	0.6	623	0.6	636	0.7	614	0.7
Tin plate	4,604	4.6	4,489	4.6	4,700	5.1	4,784	5.3
Tin Free Steel	1,063	1.0	918	0.9	974	1.1	967	1.1
Tin Mill products—All other	75	0.1	70	0.1	72	0.1	71	0.1
Sheets—Hot rolled	15,995	16.0	15,447	15.8	14,558	16.0	15,090	16.9
—Cold rolled	17,284	17.2	17,821	18.2	17,684	19.4	18,265	20.4
Sheets and strip—Galvanized—Hot dipped	5,810	5.8	5,889	6.0	5,293	5.8	4,914	5.5
—Electrolytic	531	0.5	541	0.6	364	0.4	265	0.3
—All other metallic coated	975	1.0	997	1.0	923	1.0	844	0.9
—Electrical	697	0.7	639	0.6	597	0.6	577	0.7
Strip—Hot rolled	984	1.0	1,027	1.0	1,082	1.2	1,196	1.3
—Cold rolled	1,230	1.2	1,248	1.3	1,186	1.3	1,152	1.3
TOTAL STEEL PRODUCTS	100,262	100.0	97,935	100.0	91,147	100.0	89,447	100.0
Carbon	87,879	87.6	86,187	88.0	81,268	89.2	80,320	89.8
Stainless and heat resisting	1,361	1.4	1,191	1.2	1,118	1.2	1,019	1.1
Alloy (other than stainless)	11,022	11.0	10,557	10.8	8,761	9.6	8,108	9.1

Similar data not available prior to 1935.
† Included with blooms, slabs, billets, sheet bars and hot rolled bars.

OF STEEL PRODUCTS
ALLOY AND STAINLESS STEEL)

of net tons)

1975		1974		1973		1972		1971		1970	
Shipments	%	Shipments	%	Shipments	%	Shipments	%	Shipments	%	Shipments	%
559	0.7	684	0.6	614	0.6	413	0.5	412	0.5	918	1.0
2,020	2.5	2,937	2.7	3,095	2.8	2,580	2.8	2,942	3.4	4,771	5.3
†	†	†	†	†	†	†	†	†	†	16	
34	0.1	27				6		21			
1,298	1.6	1,861	1.7	2,040	1.8	1,919	2.1	1,587	1.8	1,681	1.8
4,697	5.9	6,548	6.0	6,556	5.9	5,237	5.7	5,222	6.0	5,566	6.1
424	0.5	662	0.6	525	0.5	419	0.5	445	0.5	495	0.6
8,761	11.0	10,919	10.0	9,678	8.7	7,553	8.2	7,939	9.1	8,065	8.9
1,179	1.5	924	0.8	916	0.8	921	1.0	879	1.0	858	0.9
70	0.1	66	0.1	51		36		40		42	
29		30		21		18		20		26	
222	0.3	269	0.2	216	0.2	199	0.2	179	0.2	176	0.2
88	0.1	88	0.1	86	0.1	84	0.1	77	0.1	76	0.1
216	0.2	221	0.2	240	0.2	212	0.2	223	0.3	249	0.3
161	0.2	187	0.2	159	0.1	131	0.2	146	0.2	162	0.2
7,410	9.3	10,080	9.2	9,729	8.7	8,550	9.3	7,561	8.7	8,108	8.9
736	0.9	982	0.9	1,034	0.9	750	0.8	618	0.7		
3,666	4.6	5,089	4.6	5,135	4.6	4,454	4.9	4,521	5.2	4,891	5.4
1,486	1.8	2,250	2.1	2,161	1.9	1,675	1.8	1,378	1.6	1,490	1.6
69	0.1	113	0.1	111	0.1	90	0.1	78	0.1	88	0.1
2,096	2.6	2,918	2.6	2,979	2.7	2,443	2.7	2,441	2.8	2,554	2.8
2,577	3.2	2,262	2.1	1,736	1.6	1,277	1.4	1,404	1.6	1,307	1.4
1,721	2.2	2,373	2.2	2,008	1.8	1,943	2.1	1,998	2.3	2,094	2.3
1,202	1.5	1,503	1.4	1,585	1.4	1,219	1.3	1,037	1.2	1,052	1.2
332	0.4	324	0.3	241	0.2	185	0.2	199	0.2	237	0.3
258	0.3	411	0.4	548	0.5	513	0.6	470	0.6	502	0.6
42	0.1	53		36		29		27		32	
1,625	2.0	2,527	2.3	2,559	2.3	2,270	2.5	2,132	2.5	2,362	2.6
265	0.3	332	0.3	362	0.3	355	0.4	340	0.4	300	0.3
81	0.1	68	0.1	90	0.1	100	0.1	98	0.1	97	0.1
124	0.2	128	0.1	134	0.1	125	0.1	117	0.1	120	0.2
59	0.1	117	0.1	100	0.1	102	0.1	104	0.1	119	0.1
486	0.6	701	0.6	694	0.6	605	0.6	659	0.7	609	0.7
4,151	5.2	5,549	5.1	5,288	4.7	4,464	4.9	5,121	5.9	5,706	6.3
1,000	1.2	1,211	1.1	1,243	1.1	988	1.1	953	1.1	856	0.9
50	0.1	67	0.1	91	0.1	78	0.1	77	0.1	72	0.1
11,222	14.1	15,774	14.4	16,885	15.2	14,036	15.3	11,760	13.5	12,319	13.6
12,841	16.1	18,275	16.7	20,377	18.3	16,123	17.6	14,898	17.1	14,250	15.7
3,537	4.4	5,772	5.3	6,515	5.9	5,196	5.6	4,742	5 5	4,497	5.0
183	0.2	333	0.3	371	0.3	321	0.3	325	0.4	308	0.3
555	0.7	998	0.9	947	0.9	691	0.7	621	0.7	551	0.6
563	0.7	859	0.8	862	0.8	709	0.8	640	0.7	731	0.8
961	1.2	1,405	1.3	1,869	1.7	1,533	1.7	1,436	1.7	1,293	1.4
901	1.1	1,575	1.4	1,543	1.4	1,253	1.4	1,151	1.3	1,152	1.3
79,957	100.0	109,472	100.0	111,430	100.0	91,805	100.0	87,038	100.0	90,798	100.0
70,764	88.5	97,948	89.5	100,924	90.6	83,173	90.6	79,306	91.1	83,145	91.6
757	0.9	1,345	1.2	1,134	1.0	855	0.9	718	0.8	709	0.8
8,436	10.6	10,179	9.3	9,372	8.4	7,777	8.5	7,014	8.1	6,944	7.6

TABLE 15—NET SHIPMENTS OF STEEL ALL GRADES (INCLUDING CARBON,

(Thousands

Market Classifications	1979 Ship-ments	1979 %	1978 Ship-ments	1978 %	1977 Ship-ments	1977 %	1976 Ship-ments	1976 %
Steel for converting and processing	5,058	5.0	4,612	4.7	3,679	4.0	4,036	4.5
Independent forgers (not elsewhere classified)	1,254	1.3	1,192	1.2	998	1.1	952	1.1
Industrial fasteners	934	0.9	870	0.9	848	0.9	912	1.0
Steel service centers & distributors	18,246	18.2	17,333	17.7	15,346	16.8	14,615	16.3
Construction, including maintenance	9,978	10.0	9,612	9.8	7,553	8.3	7,508	8.4
Contractors' products	3,745	3.7	3,480	3.6	4,500	4.9	4,502	5.0
Subtotal construction and contractors' products	13,723	13.7	13,092	13.4	12,053	13.2	12,010	13.4
Automotive:								
Vehicles, parts, etc.	18,099	18.0	20,651	21.1	20,882	22.9	20,667	23.1
Independent forgers	522	0.5	602	0.6	608	0.7	684	0.8
Total	18,621	18.5	21,253	21.7	21,490	23.6	21,351	23.9
Rail transportation:								
Freight cars, pass. cars & locomotives	2,445	2.4	2,188	2.2	1,709	1.9	1,469	1.6
Rails and all other	1,666	1.7	1,361	1.4	1,529	1.7	1,587	1.8
Total	4,111	4.1	3,549	3.6	3,238	3.6	3,056	3.4
Shipbuilding and marine equipment	924	0.9	845	0.9	869	1.0	969	1.1
Aircraft and aerospace	60	0.1	60	0.1	63	0.1	59	0.1
Oil and gas industry	3,739	3.7	4,140	4.3	3,650	4.0	2,653	3.0
Mining, quarrying and lumbering	569	0.6	508	0.5	486	0.5	536	0.6
Agricultural:								
Agricultural machinery	1,306	1.3	1,080	1.1	1,017	1.1	1,209	1.4
All other	665	0.7	725	0.7	631	0.7	575	0.6
Total	1,971	2.0	1,805	1.8	1,648	1.8	1,784	2.0
Machinery, industrial equipment & tools	5,996	6.0	5,992	6.1	5,566	6.1	5,180	5.8
Electrical equipment	2,819	2.8	2,811	2.9	2,639	2.9	2,671	3.0
Appliances, utensils and cutlery	2,140	2.1	2,094	2.1	2,129	2.3	1,950	2.2
Other domestic & commercial equipment	2,073	2.1	1,889	1.9	1,846	2.0	1,813	2.0
Containers, packaging & shipping materials:								
Cans and closures	4,994	4.9	4,950	4.9	5,173	5.7	5,301	5.9
Barrels, drums and shipping pails	939	1.0	809	0.9	768	0.8	859	1.0
All other	839	0.9	836	0.9	773	0.9	754	0.8
Total	6,772	6.8	6,595	6.7	6,714	7.4	6,914	7.7
Ordnance and other military	204	0.2	207	0.2	193	0.2	219	0.2
Export (reporting companies only)	2,007	2.0	1,224	1.3	1,076	1.2	1,839	2.1
Nonclassified shipments	9,041	9.0	7,864	8.0	6,616	7.3	5,928	6.6
TOTAL SHIPMENTS	100,262	100.0	97,935	100.0	91,147	100.0	89,447	100.0

Similar data not available prior to 1940.

PRODUCTS BY MARKET CLASSIFICATIONS
ALLOY AND STAINLESS STEEL)

of net tons)

1975		1974		1973		1972		1971		1970	
Shipments	%	Shipments	%	Shipments	%	Shipments	%	Shipments	%	Shipments	%
3,255	4.1	4,486	4.1	4,714	4.2	4,199	4.6	3,593	4.1	3,443	3.8
1,098	1.4	1,339	1.2	1,213	1.1	1,007	1.1	1,018	1.2	1,048	1.2
675	0.8	1,331	1.2	1,278	1.1	1,030	1.1	956	1.1	1,005	1.1
12,700	15.9	20,400	18.6	20,383	18.3	16,797	18.3	14,424	16.6	16,025	17.7
8,119	10.2	11,360	10.4	10,731	9.6	8,589	9.4	8,666	10.0	8,913	9.8
3,927	4.9	6,249	5.7	6,459	5.8	5,055	5.5	4,946	5.6	4,440	4.9
12,046	15.1	17,609	16.1	17,190	15.4	13,644	14.9	13,612	15.6	13,353	14.7
14,750	18.4	18,256	16.7	22,468	20.2	17,639	19.2	16,980	19.5	14,011	15.4
464	0.6	672	0.6	749	0.6	578	0.6	503	0.6	464	0.5
15,214	19.0	18,928	17.3	23,217	20.8	18,217	19.8	17,483	20.1	14,475	15.9
1,836	2.3	2,132	1.9	1,997	1.8	1,511	1.6	1,855	2.1	2,005	2.3
1,316	1.6	1,285	1.2	1,231	1.1	1,219	1.3	1,149	1.3	1,093	1.2
3,152	3.9	3,417	3.1	3,228	2.9	2,730	2.9	3,004	3.4	3,098	3.5
1,413	1.8	1,339	1.2	1,019	0.9	872	1.0	1,161	1.3	859	0.9
69	0.1	79	0.1	69	0.1	63	0.1	53	0.1	56	0.1
4,171	5.2	4,210	3.9	3,405	3.1	2,789	3.0	2,892	3.3	3,550	3.9
596	0.7	644	0.6	534	0.5	562	0.5	478	0.5	497	0.5
1,055	1.3	1,236	1.1	1,155	1.0	962	1.1	788	0.9	809	0.9
374	0.5	623	0.6	617	0.6	477	0.5	342	0.4	317	0.3
1,429	1.8	1,859	1.7	1,772	1.6	1,439	1.6	1,130	1.3	1,126	1.2
5,173	6.5	6,440	5.9	6,351	5.7	5,396	5.9	4,903	5.6	5,169	5.6
2,173	2.7	3,242	3.0	3,348	3.0	2,824	3.1	2,593	3.0	2,694	3.0
1,653	2.1	2,412	2.2	2,747	2.5	2,362	2.6	2,148	2.5	2,160	2.4
1,390	1.7	1,941	1.8	1,990	1.8	1,816	2.0	1,720	2.0	1,778	2.0
4,859	6.0	6,349	5.8	6,070	5.5	5,128	5.6	5,808	6.7	6,239	6.8
601	0.8	1,026	0.9	910	0.8	748	0.8	732	0.8	823	0.9
593	0.8	843	0.8	831	0.7	740	0.8	672	0.8	713	0.8
6,053	7.6	8,218	7.5	7,811	7.0	6,616	7.2	7,212	8.3	7,775	8.5
405	0.5	654	0.6	918	0.8	899	0.9	861	1.0	1,222	1.3
1,755	2.2	3,961	3.6	3,138	2.8	2,555	2.8	2,433	2.8	5,985	6.6
5,537	6.9	6,963	6.3	7,105	6.4	6,048	6.6	5,364	6.2	5,480	6.1
79,957	100.0	109,472	100.0	111,430	100.0	91,805	100.0	87,038	100.0	90,798	100.0

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SEE FOLDOUT NO 1

EXPORTS AND IMPORTS

The following tables, compiled from Department of Commerce report on Foreign Commerce and Navigation of the United States, give an analysis of the tonnage of iron and steel products exported and imported during the period 1975-1979. Exports and imports of iron and steel products not stated by weight in the reports are necessarily omitted.

Exports
-Products
-Monthly Data
-Countries of Destination
-Imports
-Products
-Monthly Data
-Countries of Origin
-Customs Districts

TABLE 17—EXPORTS OF IRON AND STEEL PRODUCTS

(Net tons)

Products	1979	1978	1977	1976	1975
Steel Mill Products:					
Ingots, blooms, billets, slabs, etc.	357,965	231,098	248,422	261,647	324,942
Wire rods	26,903	38,863	83,934	100,033	40,617
Structural shapes (3" & over)	139,062	124,445	96,551	97,507	170,213
Sheet piling	6,822	2,830	1,651	2,203	15,905
Plates	207,860	172,068	60,660	76,627	233,499
Rails—Standard	18,969	33,249	17,051	61,893	59,295
—Iron or Steel n.e.c.	10,495	21,687	46,195	83,156	79,019
Rail joints and tie plates	8,686	13,081	20,245	17,296	43,667
Track spikes	†	†	1,970	1,455	2,900
Wheels and axles	2,496	8,573	4,537	5,393	14,067
Concrete reinforcing bars	86,281	111,346	75,968	90,799	65,323
Bar shapes under 3"	18,235	18,648	8,182	22,045	23,879
Bars—Hot rolled—Carbon	68,489	42,346	62,388	83,254	89,546
—Alloy	45,837	64,849	39,076	56,687	45,199
Cold finished bars	29,071	31,448	35,768	24,212	32,161
Tool steel	4,461	5,133	8,609	5,590	7,913
Hollow Drill Steel	7,870	8,539	NA	NA	NA
Pipe—Black	†	†	58,063	98,073	245,514
—Galvanized	†	†	9,653	12,770	13,903
—Line	86,606	84,980	30,303	51,104	138,216
—Standard	154,550	117,075	NA	NA	NA
Oil country goods	284,621	155,337	139,753	168,837	429,712
Tubing—Pressure	24,564	26,303	31,340	25,493	22,325
—Mechanical	57,220	78,981	48,193	49,244	62,004
—Structural	11,426	9,262	NA	NA	NA
Other pipe and tubing	109,428	90,060	89,904	88,164	102,090
Wire—Alloy and Stainless	†	†	4,459	3,771	3,881
—Coated or uncoated	10,674	12,906	NA	NA	NA
—Carbon	21,335	24,538	41,016	42,163	23,465
—Barbed, Iron or Steel	2,813	1,057	1,347	3,037	8,046
—Fencing	†	†	4,650	4,763	3,547
—Nails and staples	10,320	23,910	12,848	13,671	10,843
Black plate	125,548	79,199	23,544	28,025	13,085
Tin plate	420,711	348,947	325,418	367,596	255,241
Circles, cobbles and butts	†	†	23,564	16,844	2,838
Terne plate & terne coated	19,694	25,317	1,974	524	557
Sheets—Hot rolled	100,525	98,681	49,147	150,911	128,529
—Cold rolled	115,652	121,649	104,768	158,552	59,481
—Enameling	†	†	626	3,203	2,427
Sheets & strip—Galv. & other coated	130,131	129,507	101,550	124,160	87,309
—Electrical	†	†	11,097	11,457	14,528
—Silicon alloy	30,798	15,192	NA	NA	NA
Strip—Hot rolled	15,603	13,541	33,329	199,261	38,461
—Cold rolled	46,214	37,043	45,348	44,586	38,977
Total Steel Mill Products	2,817,935	2,421,688	2,003,101	2,654,006	2,953,124
Carbon	2,284,300	1,881,062	1,708,396	2,242,655	2,553,773
Alloy	447,925	469,054	224,581	337,175	323,329
Stainless	85,710	71,572	70,124	74,176	76,022

TABLE 17—EXPORTS OF IRON AND STEEL PRODUCTS (Continued)

(Net tons)

Products	1979 P	1978	1977	1976	1975
Other Steel Products:					
Plates—Fabricated	6,201	10,960	30,982	30,667	37,945
Structural shapes—Fabricated	121,296	119,557	126,829	149,598	169,638
Sashes & frames	10,237	11,116	14,804	15,104	12,474
Relaying rails	†	†	31,945	18,472	12,356
Rail cars	70,224	50,428	NA	NA	NA
Railway track material	4,770	5,593	14,108	5,878	15,178
Bolts, nuts	95,094	101,814	124,636	113,213	98,400
Architectural & ornamental work, n.e.c.	4,157	5,821	11,093	7,983	6,077
Welding electrodes	†	†	8,047	10,460	9,429
Wire cable, rope, strand & cordage	14,292	14,621	16,672	18,493	30,223
Fabricated wire products	11,854	14,034	4,418	6,591	3,783
Wire springs	16,386	†	44,208	43,935	35,665
Welded wire mesh	6,870	9,370	NA	NA	NA
Containers	†	†	1,899	5,470	3,116
Sheets—Fabricated	16,161	20,248	16,619	29,872	19,202
Steel castings	†	†	23,005	29,500	43,197
Cast steel rolls	3,432	3,669	NA	NA	NA
Forgings	56,013	55,122	45,421	50,726	48,093
Chains and parts	10,072	10,786	11,158	11,755	12,746
Rigid conduit	†	†	17,206	17,785	17,490
Pipe & tube fittings	56,640	79,480	32,531	38,217	43,140
Total Other Steel Products	503,699	512,619	575,581	603,719	618,152
Total Steel Products	3,321,634	2,934,307	2,578,682	3,257,725	3,571,276
Iron Products and Ferroalloys:					
Chilled iron railway car wheels	†	†	749	727	2,531
Cast iron pressure pipe	24,363	51,673	43,631	23,763	29,372
Cast iron soil pipe	9,790	34,222	18,836	32,693	34,093
Cast iron fittings not malleable	16,878	15,301	32,331	34,545	36,878
Cast iron fittings malleable	9,615	10,700			
Iron castings	141,193	320,238	411,502	408,313	316,425
Pig iron	105,116	51,116	51,357	57,480	59,596
Sponge iron, iron or steel powders	20,566	16,063	NA	NA	NA
Ferroalloys	113,163	65,664	80,912	49,570	96,379
Total Iron Products & Ferroalloys	440,684	564,977	639,318	607,091	575,074
GRAND TOTAL	3,762,318	3,499,284	3,218,000	3,864,816	4,146,350
Iron and steel scrap	11,053,877	9,037,921	6,174,813	8,120,394	9,608,218

Similar data not available prior to 1869.
† Not reported separately as of Jan. 1, 1978.

TABLE 18—EXPORTS OF IRON AND STEEL PRODUCTS

(Net tons)

Products	1979 P	1978	1977	1976	1975	1974	1973	1972	1971	1970
Steel Mill Products:										
Ingots, blooms, billets, slabs, etc.	357,965	231,098	248,422	261,647	324,942	807,418	550,728	418,203	875,839	3,180,101
Wire rods	26,903	38,863	83,934	100,033	40,617	65,851	89,781	122,895	62,842	163,513
Structural shapes and piling	145,884	127,275	98,202	99,710	186,118	367,079	260,820	111,414	146,403	192,891
Plates	207,860	172,068	60,660	76,627	233,499	426,987	291,444	74,943	82,854	180,578
Rails and accessories	40,646	76,590	89,998	167,193	198,948	130,453	110,611	116,098	71,669	98,633
Bars and tool steel	260,244	282,309	229,991	282,587	264,021	753,747	402,846	202,628	187,857	324,203
Pipe and tubing	728,415	561,998	407,209	493,685	1,013,764	870,200	572,094	408,228	318,345	323,618
Wire and wire products	45,142	62,411	64,320	67,405	49,782	75,804	52,683	39,307	35,267	40,919
Tin mill products	565,953	453,463	374,500	412,989	271,721	577,983	516,344	338,200	303,405	422,161
Sheets and strip	438,923	415,613	345,865	692,130	369,712	1,757,626	1,205,100	1,040,771	742,896	2,135,243
Total Steel Mill Products	2,817,935	2,421,688	2,003,101	2,654,006	2,953,124	5,833,148	4,052,451	2,872,687	2,827,377	7,061,860
Other Steel Products	503,699	512,619	575,581	603,719	618,152	688,449	496,113	328,075	327,754	398,321
Total Steel Products	3,321,634	2,934,307	2,578,682	3,257,725	3,571,276	6,521,597	4,548,564	3,200,762	3,155,131	7,460,181
Iron Products and Ferroalloys	440,684	564,977	639,318	607,091	575,074	610,737	511,006	404,814	391,787	679,398
GRAND TOTAL	3,762,318	3,499,284	3,218,000	3,864,816	4,146,350	7,132,334	5,059,570	3,605,576	3,546,918	8,139,579

Similar data not available prior to 1933.

TABLE 19—EXPORTS OF STEEL MILL PRODUCTS

(Net tons)

Months	1979 P	1978	1977	1976	1975	1974	1973	1972	1971	1970
January	192,619	160,338	162,280	150,444	288,760	454,844	288,253	208,019	258,270	654,439
February	164,693	207,583	204,787	177,031	257,148	448,208	220,684	221,246	198,873	690,402
March	216,844	191,463	201,535	211,534	282,109	502,733	323,203	260,825	185,680	698,494
April	226,446	204,708	232,818	228,524	269,788	533,431	339,546	198,514	188,761	809,376
May	236,756	255,466	178,011	264,744	268,019	626,899	371,734	244,566	182,606	916,488
June	255,187	270,996	151,195	231,947	255,744	632,630	322,572	210,519	248,866	654,576
July	233,706	174,335	135,753	318,432	263,851	646,764	342,804	219,613	297,547	634,666
August	249,507	208,456	142,849	280,176	270,695	488,249	323,802	301,073	163,813	566,515
September	244,488	174,305	170,806	193,296	202,239	345,801	281,001	304,478	285,914	398,002
October	281,453	217,741	125,386	183,082	228,181	386,800	373,806	251,774	171,941	379,749
November	226,700	194,487	148,396	186,043	184,907	296,421	388,073	207,399	247,622	355,310
December	289,312	248,453	149,161	228,276	181,659	470,236	473,242	244,610	396,836	303,689
TOTAL *	2,817,935	2,421,688	2,003,101	2,654,006	2,953,124	5,833,148	4,052,451	2,872,687	2,827,377	7,061,860

*** Revised totals include adjustments not shown in monthly figures.**
Similar data not available prior to 1953.

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SEE FOLDOUT NO 2

TABLE 21—IMPORTS OF IRON AND STEEL PRODUCTS

(Net tons)

Products	1979 P	1978	1977	1976	1975
Steel Mill Products:					
Ingots, blooms, slabs, and billets, etc.	344,693	413,899	297,711	240,110	242,836
Wire rods	985,414	1,326,580	1,341,575	1,120,744	1,112,772
Structural shapes (plain 3" and over)	1,881,967	1,798,963	1,743,228	1,361,365	812,429
Sheet piling	102,815	128,004	73,959	63,086	63,732
Plates	1,819,812	2,924,989	2,116,459	1,596,429	1,403,265
Rails and track accessories	213,676	189,159	149,960	81,470	100,463
Wheels and axles	99,547	96,726	57,231	32,197	74,955
Concrete reinforcing bars	116,955	109,956	92,602	192,165	142,230
Bar shapes under 3"	231,614	239,744	263,177	164,347	167,189
Bars—Hot rolled—Carbon	452,435	597,828	704,298	384,228	423,146
—Alloy	153,887	182,796	145,025	93,248	89,001
—Cold finished	170,501	204,489	156,066	100,055	99,342
Hollow drill steel	2,022	2,201	2,739	1,747	2,797
Pipe and tubing—Welded	1,750,485	1,743,339	1,393,189	1,289,240	1,027,374
—Other	1,169,534	1,302,571	1,080,551	715,912	657,392
Round and shaped wire	439,851	576,056	513,200	400,610	377,423
Flat wire	20,817	23,221	20,209	15,971	16,651
Bale ties	85	311	255	827	151
Galvanized wire fencing	11,261	19,159	16,014	18,196	13,225
Wire nails	336,814	428,375	401,575	340,190	209,973
Barbed wire	18,429	27,659	25,981	39,565	29,664
Black plate	82,070	46,015	16,939	12,597	6,448
Tin plate	259,538	376,324	444,077	309,298	407,124
Terne plate	3,243	4,227	4,118	2,575	1,288
Sheets—Hot rolled	2,161,757	2,617,023	2,674,157	1,638,920	1,511,183
—Cold rolled	2,412,987	3,236,859	3,454,522	2,453,621	2,161,416
—Coated (incl. Galvanized)	2,139,148	2,312,940	1,918,852	1,471,460	739,036
—Coated alloy	3	58	178		12
Strip—Hot rolled	27,349	35,646	32,396	23,089	17,512
—Cold rolled	49,582	49,272	41,541	42,453	26,201
—Hot and cold rolled—Alloy	21,253	25,076	20,955	19,331	19,424
Sheets—Other—Electric coated	38,591	95,117	103,873	59,559	56,788
Total Steel Mill Products	17,518,135	21,134,582	19,306,612	14,284,605	12,012,442
Carbon	16,620,845	20,181,302	18,548,909	13,626,721	11,397,644
Alloy	728,188	753,543	579,627	483,172	447,601
Stainless	169,102	199,737	178,076	174,712	167,197
Other Steel Products:					
Structural shapes, fabricated	180,412	125,853	128,996	87,705	90,879
Shapes—Cold formed	534	330	393	540	92
Sashes and frames	213	164	503	600	136
Fence or sign posts	2,131	2,412	8,575	3,022	802
Wire—Nonmetallic covered	632	533	392	479	258
Wire rope	114,266	98,830	90,670	62,451	65,701
Wire strand	171,573	166,055	140,300	112,899	132,756
Welded wire fabric	23,203	25,994	14,826	10,631	16,613
Other nails and staples	30,784	33,762	31,130	28,681	17,511
Bale ties, made from strip	8,046	28,207	37,362	12,726	16,461
Bolts, nuts and rivets	499,578	532,576	442,987	249,087	194,661
Grinding balls	26,578	22,305	12,810	14,538	19,084
Blanks, nonrectangular flat rolled	6,753	10,025	19,035	7,023	8,217
Rigid conduit	3,094	3,323	851	5,078	904
Pipe and tube fittings	81,714	79,209	56,403	56,479	92,888
Total Other Steel Products	1,149,511	1,129,578	985,233	651,939	656,963
Total Steel Products	18,667,646	22,264,160	20,291,845	14,936,544	12,669,405
Iron Products and Ferroalloys:					
Bar iron, iron slabs and blooms, etc.	65	29	19	3	200
Cast iron soil pipe and fittings	807	1,467	900	2,151	1,925
Other cast iron pipe and fittings	8,701	9,828	6,770	5,749	6,340
Malleable cast iron pipe fittings	17,324	14,669	13,834	11,129	7,533
Castings and forgings	135,056	92,471	48,725	37,562	47,478
Pig iron	476,384	655,416	372,767	414,664	478,105
Sponge iron	104,154	97,641	140,338	124,712	48,733
Ferromanganese (manganese content)	638,724	527,926	416,082	417,428	306,649
Ferrosilicon (silicon content)	74,464	85,916	75,248	64,122	47,362
Ferrochromium (chromium content)	113,521	174,814	134,208	150,261	197,993
Other ferroalloys	89,708	143,949	157,387	129,403	107,522
Total Iron Products and Ferroalloys	1,658,908	1,804,126	1,366,278	1,357,184	1,249,840
GRAND TOTAL	20,326,554	24,068,286	21,658,123	16,293,728	13,919,245
Iron and Steel Scrap	760,278	793,948	625,381	507,158	305,360

Similar data not available prior to 1869.

OVERSIZE FOLDOUT(S) FOUND HERE IN THE PRINTED EDITION OF THIS VOLUME ARE FOUND FOLLOWING THE LAST PAGE OF TEXT IN THIS MICROFICHE EDITION.

SEE FOLDOUT NO 3

OVERSIZE FOLDOUT(S) FOUND HERE IN THE PRINTED EDITION OF THIS VOLUME ARE FOUND FOLLOWING THE LAST PAGE OF TEXT IN THIS MICROFICHE EDITION.

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TABLE 22—IMPORTS OF IRON AND STEEL PRODUCTS

(Net tons)

Products	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
Steel Mill Products:										
Ingots, blooms, billets, slabs, etc.	344,693	413,899	297,711	240,110	242,836	182,857	172,305	261,696	274,414	170,648
Wire rods	985,414	1,326,580	1,341,575	1,120,744	1,112,772	1,950,624	1,416,252	1,402,894	1,544,359	1,055,557
Structural shapes and piling	1,984,782	1,926,967	1,817,187	1,424,451	876,161	1,234,489	1,337,999	1,712,119	1,571,877	1,186,096
Plates	1,819,812	2,924,989	2,116,459	1,596,429	1,403,265	1,622,952	1,348,753	1,685,885	1,573,665	968,778
Rails and accessories	313,223	285,885	207,191	113,667	175,418	117,482	77,758	74,803	68,821	72,250
Bars and tool steel	1,127,414	1,337,014	1,363,907	935,790	923,705	1,869,093	1,700,742	1,972,663	2,095,150	1,363,259
Pipe and tubing	2,920,019	3,045,910	2,473,740	2,005,152	1,684,766	1,894,524	1,658,784	1,843,402	1,841,125	1,926,995
Wire and wire products	827,257	1,074,781	977,234	815,359	647,087	1,047,942	944,958	1,041,003	963,047	886,150
Tin mill products	344,851	426,566	465,134	324,470	414,860	327,321	473,671	524,494	425,068	334,654
Sheets and strip	6,850,670	8,371,991	8,246,474	5,708,433	4,531,572	5,722,754	6,018,460	7,162,048	7,964,827	5,400,087
Total Steel Mill Products	17,518,135	21,134,582	19,306,612	14,284,605	12,012,442	15,970,038	15,149,682	17,681,007	18,322,353	13,364,474
Other Steel Products	1,149,511	1,129,578	985,233	651,939	656,963	846,037	704,294	668,062	625,826	632,447
Total Steel Products	18,667,646	22,264,160	20,291,845	14,936,544	12,669,405	16,816,075	15,853,976	18,349,069	18,948,179	13,996,921
Iron Products and Ferroalloys	1,658,908	1,804,126	1,366,278	1,357,184	1,249,840	1,146,599	1,154,321	1,209,755	681,466	612,448
GRAND TOTAL	20,326,554	24,068,286	21,658,123	16,293,728	13,919,245	17,962,674	17,008,297	19,558,824	19,629,645	14,609,369

Similar data not available prior to 1933.

TABLE 23—IMPORTS OF STEEL MILL PRODUCTS

(Net tons)

Months	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
January	1,264,346	1,537,792	1,121,267	1,006,896	1,801,358	827,241	1,380,782	1,093,184	1,304,726	780,996
February	1,329,115	2,219,592	1,002,459	966,145	1,192,004	829,881	1,305,921	1,129,337	1,229,584	696,664
March	1,095,893	1,988,233	1,175,410	1,033,899	1,153,380	891,779	1,169,807	1,095,494	1,253,697	859,311
April	1,071,955	2,174,892	1,114,786	948,334	959,036	971,269	1,050,822	929,875	1,363,434	962,117
May	1,654,757	1,511,255	1,817,390	1,071,425	856,158	1,142,356	1,603,920	1,603,175	1,791,944	1,065,735
June	1,365,619	1,359,820	1,818,620	1,354,854	927,035	1,292,316	1,228,765	1,598,803	2,111,638	1,082,153
July	1,514,423	1,784,814	1,582,037	1,190,080	804,651	1,292,589	1,380,407	1,531,098	1,688,307	1,133,951
August	1,783,935	1,870,390	1,831,115	1,201,166	748,176	1,607,333	1,315,662	1,787,250	1,554,015	1,111,313
September	1,640,695	1,584,169	2,057,413	1,282,664	697,209	1,259,530	1,074,689	1,569,825	1,779,731	1,277,071
October	1,603,188	1,715,239	1,761,726	1,267,934	817,768	2,021,301	1,234,522	1,910,435	1,437,299	1,333,823
November	1,651,951	2,016,345	1,937,947	1,596,834	902,900	1,925,109	1,312,797	1,823,991	1,471,900	1,714,439
December	1,542,258	1,372,040	2,086,549	1,364,403	1,152,767	1,909,334	1,091,588	1,608,540	1,335,878	1,346,901
TOTAL *	17,518,135	21,134,582	19,306,612	14,284,605	12,012,442	15,970,038	15,149,682	17,681,007	18,322,353	13,364,474

* Revised totals include adjustments not shown in monthly figures.
Similar data not available prior to 1950.

TABLE 25—IMPORTS OF TOTAL STEEL MILL PRODUCTS BY COUNTRIES OF ORIGIN

(Net Tons)

	1979	% Total	% Apparent Supply **	1978	% Total	% Apparent Supply **	1977	% Total	% Apparent Supply **	1976	% Total	% Apparent Supply **	1975	% Total	% Apparent Supply **
Canada	2,353,883	13.4	2.0	2,363,856	11.2	2.0	1,892,032	9.8	1.7	1,303,680	9.1	1.3	1,009,448	8.4	1.1
Mexico	159,627	0.9	0.1	213,973	1.0	0.2	223,612	1.2	0.2	141,377	1.0	0.1	50,788	0.4	0.1
Brazil	432,238	2.5	0.4	292,683	1.4	0.3	65,290	0.3	0.1	67,409	0.5	0.1	43,226	0.4	—
Argentina	37,579	0.2	—	239,119	1.1	0.2	89,956	0.5	0.1	87,021	0.6	0.1	3,726	—	—
Total Latin America	647,069	3.7	0.6	772,828	3.6	0.7	391,400	2.1	0.4	311,528	2.2	0.3	102,641	0.9	0.1
United Kingdom	433,727	2.5	0.4	671,765	3.2	0.6	818,159	4.2	0.7	533,055	3.7	0.5	572,857	4.8	0.6
Netherlands	499,981	2.8	0.4	685,622	3.2	0.6	607,829	3.1	0.5	388,716	2.7	0.4	448,565	3.7	0.5
Belgium-Luxembourg	956,405	5.5	0.8	1,238,325	5.9	1.1	1,146,688	5.9	1.1	462,621	3.2	0.5	630,213	5.2	0.7
France	1,340,670	7.7	1.2	1,758,832	8.3	1.5	1,586,164	8.2	1.5	730,343	5.1	0.7	753,798	6.3	0.8
West Germany	1,868,076	10.7	1.6	2,294,516	10.9	1.9	2,006,634	10.4	1.9	758,706	5.3	0.8	1,070,400	8.9	1.2
Italy	291,671	1.7	0.3	788,684	3.7	0.7	662,702	3.4	0.6	303,395	2.1	0.3	641,742	5.3	0.7
Total EEC *	5,405,389	30.9	4.7	7,463,394	35.3	6.4	6,832,850	35.4	6.3	3,187,660	22.3	3.2	4,117,575	34.3	4.6
Sweden	194,031	1.1	0.2	227,140	1.1	0.2	125,964	0.7	0.1	106,510	0.7	0.1	81,668	0.7	0.1
Finland	145,985	0.8	0.1	213,844	1.0	0.2	138,939	0.7	0.1	29,599	0.2	—	8,759	0.1	—
Poland	117,121	0.7	0.1	364,066	1.7	0.3	170,391	0.9	0.2	105,805	0.7	0.1	72,331	0.6	0.1
Spain	380,190	2.2	0.3	665,251	3.1	0.6	310,104	1.6	0.3	234,361	1.6	0.2	157,551	1.3	0.2
Romania	38,555	0.2	—	107,058	0.5	0.1	44,444	0.2	—	8,280	0.1	—	12,598	0.1	—
Total Europe	6,392,770	36.5	5.6	9,211,103	43.6	7.9	7,681,040	39.8	7.1	3,739,593	26.2	3.7	4,531,410	37.7	5.1
Japan	6,336,003	36.2	5.5	6,487,166	30.7	5.6	7,820,376	40.5	7.2	7,984,131	55.9	7.9	5,844,005	48.6	6.6
Korea Republic	985,666	5.6	0.9	1,052,122	5.0	0.9	790,039	4.1	0.7	790,458	5.5	0.8	397,187	3.3	0.4
Taiwan	108,515	0.6	0.1	250,369	1.2	0.2	67,234	0.3	0.1	62,485	0.4	0.1	36,075	0.3	—
Republic of So. Africa	485,307	2.8	0.4	694,986	3.3	0.6	463,096	2.4	0.4	21,495	0.2	—	11,033	0.1	—
Total Asia & Africa	7,965,000	45.5	6.9	8,606,107	40.7	7.4	9,237,188	47.8	8.5	8,879,922	62.2	8.8	6,319,374	52.6	7.1
Australia & Oceania	159,413	0.9	0.1	180,688	0.9	0.1	104,952	0.5	0.1	49,882	0.3	—	49,569	0.4	0.1
Total Imports of Steel Mill Products	17,518,135	100.0	15.2	21,134,582	100.0	18.1	19,306,612	100.0	17.8	14,284,605	100.0	14.1	12,012,442	100.0	13.5

* Includes total for Denmark and Ireland.
Country detail may not add to regional total because of omissions of some countries.
** As developed in table 8 of this Report.

RAW STEEL PRODUCTION

Raw steel is defined as steel in the first solid state after melting suitable for further processing or sale, including ingots, steel castings and strand or pressure cast blooms, billets, slabs, or other product forms.

Includes only that portion of the steel casting production which was produced in foundries operated by companies producing steel ingots.

Raw steel production capability is defined as the tonnage capability to produce raw steel for a full order book based on the current availability of raw materials, fuels and supplies and of the industry's coke, iron, steelmaking, rolling and finishing facilities, recognizing current environmental and safety requirements.

Type of Furnace

Grades

State Distribution

Monthly Data

TABLE 27—RAW STEEL PRODUCTION BY TYPE OF FURNACE AND BY CARBON, ALLOY AND STAINLESS GRADES

	(Thousands of net tons)															Per Cent of Total			(Thousands of net tons)			
	Open Hearth			Bessemer	Basic Oxygen Process			Electric				Total All Grades				Rate of Capability Utilization *				Steel for Castings (Included in Total Production)			
Year	Carbon	Alloy	Total	Carbon	Carbon	Alloy	Total	Carbon	Alloy	Stainless	Total	Carbon	Alloy	Stainless	Total	%	Carbon	Alloy	Stainless	Carbon	Alloy	Stainless	Total
1979	17,200	1,958	19,158		75,334	7,922	83,256	23,692	8,128	2,107	33,927	116,226	18,008	2,107	136,341	87.8	85.3	13.2	1.5	154	59	2	215
1978	19,026	2,284	21,310		75,053	8,431	83,484	22,837	7,446	1,954	32,237	116,916	18,161	1,954	137,031	86.8	85.3	13.3	1.4	157	51	2	210
1977	18,045	1,998	20,043		70,551	6,857	77,408	19,534	6,486	1,862	27,882	108,130	15,341	1,862	125,333	78.4	86.3	12.2	1.5	141	45	2	188
1976	21,426	2,044	23,470		73,588	6,330	79,918	16,994	5,934	1,684	24,612	112,008	14,308	1,684	128,000	80.9	87.5	11.2	1.3	154	47	2	203
1975	19,794	2,367	22,161		64,840	6,961	71,801	15,726	5,843	1,111	22,680	100,360	15,171	1,111	116,642	76.2	86.0	13.0	1.0	185	68	2	255
1974	32,479	3,020	35,499		74,534	7,018	81,552	19,595	6,924	2,150	28,669	126,608	16,962	2,150	145,720		86.9	11.6	1.5	125	73	2	200
1973	36,768	3,012	39,780		76,868	6,392	83,260	19,111	6,759	1,889	27,759	132,747	16,163	1,889	150,799		88.0	10.7	1.3	114	62	1	177
1972	32,036	2,900	34,936		69,231	5,353	74,584	16,431	5,726	1,564	23,721	117,698	13,979	1,564	133,241		88.3	10.5	1.2	80	54	2	136
1971	32,612	2,947	35,559		59,472	4,471	63,943	14,923	4,755	1,263	20,941	107,007	12,173	1,263	120,443		88.8	10.1	1.1	92	52	2	146
1970	44,361	3,661	48,022		58,889	4,441	63,330	14,161	4,722	1,279	20,162	117,411	12,824	1,279	131,514		89.3	9.7	1.0	98	62	2	162
1969	55,530	5,364	60,894		55,927	4,309	60,236	13,375	5,188	1,569	20,132	124,832	14,861	1,569	141,262		88.4	10.5	1.1	116	54	2	172
1968	59,572	6,264	65,836	‡	45,706	3,106	48,812	10,991	4,391	1,432	16,814	116,269	13,761	1,432	131,462		88.4	10.5	1.1	116	55	2	173
1967	64,265	6,425	70,690	‡	38,811	2,623	41,434	10,114	3,524	1,451	15,089	113,190	12,572	1,451	127,213		89.0	9.9	1.1	134	59	1	194
1966	77,395	7,630	85,025	278	31,892	2,036	33,928	9,167	4,052	1,651	14,870	118,732	13,718	1,651	134,101		88.5	10.2	1.3	245	70	2	317
1965	85,861	8,332	94,193	586	21,787	1,092	22,879	8,417	3,894	1,493	13,804	116,651	13,318	1,493	131,462		88.8	10.1	1.1	198	67	2	267

NOT AVAILABLE

Capability is defined as the tonnage capability to produce raw steel for a full order book on the current availability of raw materials, fuels and supplies and of the industry's coke, iron, steelmaking, rolling and finishing facilities, recognizing current environmental and safety requirements.

‡ Included with open hearth.

* Industry Raw Steel Production Capability

(Millions of Net Tons)	
1979	155.3
1978	157.9
1977	160.0
1976	158.3
1975	153.1

TABLE 28—RAW STEEL PRODUCTION BY STATES

(Thousands of net tons)

States	1979	1978	1977	1976	1975
New York	4,035	4,203	3,958	4,799	3,401
Pennsylvania	28,213	28,070	25,737	26,696	25,761
R.I., Conn., N.J., Del., Md.	6,638	6,350	5,306	5,870	5,094
Va., W. Va., Ga., Fla., N.C., S.C., La.	6,788	6,441	5,484	5,403	4,795
Kentucky	2,438	2,523	2,289	2,206	2,081
Ala., Tenn., Miss., Ark.	4,487	4,307	3,963	4,109	4,308
Ohio	21,082	21,268	21,466	22,419	19,620
Indiana	22,912	24,351	21,472	22,178	19,807
Illinois	11,729	12,443	10,872	11,030	9,552
Michigan	10,922	10,789	10,051	10,382	9,093
Minn., Mo., Okla., Texas, Nebr., Iowa	8,260	7,845	6,753	5,079	5,399
Ariz., Colo., Utah, Wash., Ore., Hawaii	5,165	4,968	4,758	4,431	4,380
California	3,672	3,472	3,224	3,398	3,351
TOTAL	136,341	137,031	125,333	128,000	116,642

Similar data not available prior to 1874.

PIG IRON AND FERROALLOYS

Production
Consumption
Shipments
Monthly Production
Grades
Ferroalloys Production, Imports for Consumption
Materials Used

TABLE 29—MONTHLY AND QUARTERLY RAW STEEL PRODUCTION

(Thousands of net tons)

Periods	1979		1978		1977		1976		1975	
	Tons Net	Capability Utilization * %	Net Tons	Capability Utilization * %	Net Tons	Capability Utilization * %	Net Tons	Capability Utilization * %	Net Tons	Capability Utilization * %
January	11,105	83.5	10,301	77.2	9,089	66.8	9,835	74.4	11,584	90.4
February	10,562	87.9	9,643	80.1	8,859	72.1	9,906	80.1	10,862	93.8
March	12,576	94.5	11,083	83.1	11,049	81.2	11,294	85.4	11,980	93.4
1st Quarter	34,227	88.6	31,027	80.1	28,997	73.4	31,035	80.0	34,426	92.5
April	12,196	93.4	11,528	88.5	11,167	83.3	11,439	88.4	10,667	84.9
May	12,789	94.8	12,320	91.5	12,201	88.6	12,136	90.8	9,864	75.9
June	12,230	93.7	11,861	91.1	11,384	84.9	11,605	89.7	8,744	69.6
2nd Quarter	37,213	94.0	35,709	90.4	34,752	85.5	35,180	89.6	29,275	76.8
First 6 months	71,440	91.0	66,736	85.3	63,749	79.5	66,215	84.8	63,701	84.5
July	11,821	89.9	11,388	85.1	10,319	76.7	11,400	84.8	8,371	65.1
August	11,309	86.0	11,550	86.3	10,393	77.2	11,128	82.8	8,648	67.3
September	10,541	82.8	11,467	88.1	10,050	77.2	10,463	80.4	9,295	74.7
3rd Quarter	33,659	86.2	34,405	86.5	30,762	77.0	32,991	82.7	26,314	69.0
9 Months	105,099	89.6	101,141	85.7	94,511	78.7	99,206	84.1	90,015	79.3
October	10,810	84.4	12,105	89.8	10,442	77.7	10,296	75.8	9,214	69.0
November	9,997	80.6	11,654	89.4	9,748	75.0	9,494	72.2	8,709	67.4
December	9,996	78.0	11,812	87.7	10,031	74.7	9,215	67.8	8,846	66.2
4th Quarter	30,803	81.0	35,571	88.9	30,221	75.8	29,005	71.9	26,769	67.5
Second 6 Months	64,462	83.6	69,976	88.3	60,983	76.4	61,996	77.3	53,083	68.2
YEAR †	136,341	87.8	137,031	86.8	125,333	78.4	128,000	80.9	116,642	76.2

* Raw steel production capability varies in each calendar quarter and aggregated 153.1, 158.3, 160.0, 157.9 and 155.3 million net tons for the full years 1975, 1976, 1977, 1978 and 1979 respectively.

† Revised totals include adjustments not shown in monthly figures.

Similar data not available prior to 1917.

See notes on pages 53 and 55.

TABLE 30—BLAST FURNACE PRODUCTION

(Thousands of net tons)

Year	Basic	Bessemer	Low Phosphorus	Foundry	Malleable	All Other, (Silvery Pig Iron, Direct Castings)	Total Iron	Ferroalloys	Total Blast Furnace Production
1979	84,047	12	178	1,457	1,003	306	87,003	†	87,003
1978	84,497	295	110	1,856	471	450	87,679	†	87,679
1977	78,198	254	122	1,610	690	454	81,328	†	81,328
1976	82,894	1,150	112	1,489	800	425	86,870	†	86,870
1975	75,911	1,087	140	1,321	814	650	79,923	†	79,923
1974	91,193	1,100	106	1,528	1,382	600	95,909	†	95,909
1973	96,202	1,242	101	1,581	1,352	359	100,837	371	101,208
1972	83,961	1,336	105	1,977	1,193	370	88,942	458	89,400
1971	77,341	1,215	145	1,214	1,336	48	81,299	393	81,692
1970	86,438	1,447	146	1,707	1,415	282	91,435	381	91,816

Similar data not available prior to 1900.
† Included in all other.

TABLE 31—PIG IRON CONSUMPTION AND SALES

(Thousands of net tons)

Year	Steelmaking	Other Than Steelmaking *	Total
1979	83,307	3,984	87,291
1978	83,571	4,148	87,719
1977	77,141	3,711	80,852
1976	82,039	4,322	86,361
1975	72,837	4,115	76,952
1974	90,500	5,085	95,585
1973	96,138	4,727	100,865
1972	85,268	4,198	89,466
1971	78,223	3,608	81,831
1970	87,021	4,326	91,347

Similar data not available prior to 1946.
* Data includes sales for use outside the steel industry.

TABLE 34—PRODUCTION OF FERROALLOYS

(Thousands of net tons)

	1979 P	1978 R	1977	1976	1975
Ferromanganese	339	273	334	483	576
Silicomanganese	204	141	120	129	143
Ferrosilicon *	976	820	894	861	791
Ferrochrome	217	176	201	195	172
Other Chrome **	52	43	69	74	77
Other Ferroalloys ***	220	213	136	168	168
Total	2,008	1,666	1,754	1,910	1,927

TABLE 35—FERROALLOY IMPORTS FOR CONSUMPTION

(Thousands of net tons)

	1979 P	1978	1977	1976	1975
Ferromanganese	821	675	534	537	397
Silicomanganese	95	95	88	80	55
Ferrosilicon *	141	171	141	108	78
Ferrochrome	201	327	224	243	319
Other Chrome **	4	4	20	18	6
Other Ferroalloys ***	67	81	92	68	8
Total	1,329	1,353	1,099	1,054	863

* Ferrosilicon includes Silicon Metal.
** Other Chrome includes Ferrochrome—silicon and chromium metal.
*** Other Ferroalloys includes Ferrophosphorus, Manganese Metal and all other ferroalloys not listed.

Source: Compiled by The Ferroalloys Association from Bureau of Mines and Department of Census reports.

PIG IRON
Materials Used per Ton

TABLE 36—MATERIALS USED BY BLAST FURNACES IN MANUFACTURE OF IRON (PIG AND MOLTEN) IN 1979

Products	Thousands of net tons	Net tons per ton of iron produced
Ore:		
Iron ore (incl. manganiferous and block)	9,536	0.110
Manganese ore (incl. ferruginous manganese)	348	0.004
Agglomerated products (sinter, pellets, etc.)	126,582	1.455
Total ores and agglomerated products consumed	136,466	1.569
Less flue dust and sludge produced	2,488	0.029
Net—Ores & agglomerated products consumed	133,978	1.540
Scrap:		
Total scrap consumed	4,503	0.052
Less produced at blast furnaces & auxiliary units	1,474	0.017
Net—Scrap consumed	3,029	0.035
Mill cinder, roll scale, etc.	4,723	0.054
Limestone, dolomite, other flux materials †	17,200	0.198
Coke:		
Total coke consumed in blast furnaces	51,891	0.596
Less coke breeze (dust) recovered	1,883	0.021
Net—Coke consumed	50,008	0.575

Similar data not available prior to 1917.
• Includes production at or near mine site and at other locations.
† Based on total limestone and dolomite charged directly into blast furnaces, plus tonnage consumed in the production of agglomerates.

BASIC MATERIALS USED IN THE PRODUCTION OF IRON AND STEEL PRODUCTS

Coal

Fluxes

Coke

Iron Ore

Agglomerated Products

Scrap

Nonferrous Metals

Fuels

Electric Power

Oxygen

Manganese Ore

NOTE: Tables 36, 38, 43, 44, and 45 of this section contain data on the use of coal, coke, fuels, electric power, and oxygen by the steel industry. Quantities are given for each material for the last five years or longer in units commonly used for each material. No attempt is made to provide all of the energy inputs to and outputs from the steel industry. Whereas trends in the use of each material can be derived from the Tables, conversion of the data to energy units or estimates of energy consumption by the steel industry is subject to serious error.

TABLE 37—COAL CONSUMPTION BY USES—IRON AND STEEL INDUSTRY

(Net tons)

Year	In Production Of		Other Purposes	Total
	Coke	Steam *		
1979	69,436,846	2,006,234	244,631	71,687,711
1978	64,561,546	2,633,519	284,929	67,479,994
1977	69,805,779	3,047,883	280,817	73,134,479
1976	77,027,074	2,747,766	296,234	80,071,074
1975	75,514,838	2,736,633	364,417	78,615,888
1974	81,567,357	3,425,863	534,254	85,527,474
1973	85,586,072	4,199,042	578,868	90,363,982
1972	77,081,234	3,963,660	399,887	81,444,781
1971	74,819,319	4,357,652	269,386	79,446,357
1970	87,208,680	4,750,906	318,641	92,278,227

* Includes coal consumed in generating electric power.
Similar data not available prior to 1943.

TABLE 38—CONSUMPTION OF FLUXES

(Net tons)

Use	Fluorspar	Limestone	Lime	Other Fluxes	Total
1979					
In agglomerated products		8,210,243			8,210,243
In blast furnaces		8,989,817			8,989,817
In steelmaking furnaces:					
Open hearth	75,155	739,523	277,135	247,116	1,338,929
Basic oxygen process	386,683	347,013	6,773,113	814,655	8,321,464
Electric	99,926	235,041	1,139,636	102,828	1,577,431
TOTAL	561,764	18,521,637	8,189,884	1,164,599	28,437,884
1978	569,717R	18,551,612	8,300,500	1,169,446	28,591,275R
1977	506,353	18,765,973	7,293,073	1,135,080	27,700,479
1976	586,486	20,008,416	7,648,689	1,290,356	29,533,947
1975	534,427	20,142,144	7,110,001	891,533	28,678,105
1974	643,976	25,944,018	7,953,915	1,100,097	35,642,006

Similar data not available prior to 1943.

TABLE 41—AGGLOMERATED PRODUCTS*

(Net tons)

	1979	1978	1977	1976	1975
Materials Used:					
Ore fines and concentrates	113,047,797	101,501,120	75,755,971	99,777,042	102,069,279
Flue dust and sludge	2,509,554	2,422,304	2,519,743	2,452,322	1,998,850
Scale	4,234,905	4,057,029	3,697,404	3,530,872	3,210,610
Coke breeze	1,892,136	2,013,991	1,992,049	2,054,030	1,979,827
Coal	129,563	137,231	126,475	139,165	187,680
Cinder and slag	2,788,855	2,906,872	1,728,572	2,155,837	1,467,461
Limestone and dolomite	8,210,243	7,529,813	7,772,903	7,422,183	7,102,531
Other	2,302,751	2,746,458	2,710,902	2,261,708	1,700,667
TOTAL MATERIALS USED	135,116,104	126,314,818	96,364,019	119,793,159	119,716,905
Produced From Above Materials:					
Pellets	79,995,911	71,644,950	47,229,664	68,927,973	68,707,987
Sinter, briquettes, nodules and other	35,969,089	36,140,108	34,987,059	36,334,370	33,874,800
TOTAL PRODUCTION	115,965,000	107,785,058	82,216,723	105,262,343	102,582,787
Receipts of Foreign Production:					
Pellets	19,282,604	18,259,319	18,995,249	17,723,929	12,682,447
Sinter, briquettes, and other	†	†	†	†	†
TOTAL	19,282,604	18,259,319	18,995,249	17,723,929	12,682,447
Consumed In:					
Blast Furnaces—					
Pellets	90,683,830	86,629,355	76,596,787	82,828,945	69,471,998
Sinter, briquettes, nodules and other	35,897,762	35,572,221	35,123,678	36,431,394	35,272,153
TOTAL	126,581,592	122,201,576	111,720,465	119,260,339	104,744,151
Steelmaking Furnaces—					
Pellets	213,208	260,729	226,909	340,977	344,463
Sinter, briquettes, nodules and other	15,765	53,731	3,996	20,902	7,310
TOTAL	228,973	314,460	230,905	361,879	351,773
TOTAL CONSUMPTION	126,810,565	122,516,036	111,951,370	119,622,218	105,095,924

* Includes ore agglomerates whether produced at consuming plants, at or near the mine site or several non-consuming plants in the United States. The latter two includes plants owned and operated by Bethlehem Steel Corp., Buffalo Sintering Corp., Cleveland-Cliffs Iron Co., Erie Mining Co., Jones & Laughlin Steel Corp., Republic Steel Corp., Reserve Mining Co. and United States Steel Corp. Also includes tonnage exported from the U.S. by agglomerate producers.

† Included with pellets.

Similar data not available prior to 1955.

TABLE 42—SCRAP—STOCKS, PRODUCTION, RECEIPTS, AND CONSUMPTION BY STEEL INDUSTRY

(Thousands of net tons)

Year	Stocks On Hand Beginning of Year	Produced	Received •	Consumed	Shipped, Transferred or Otherwise Disposed	Stocks On Hand End of Year
1979P	7,118	45,308	38,017	77,202	5,845	7,396
1978R	8,010	44,920	35,651	76,294	5,357	6,930
1977	8,259	42,412	31,765	69,301	5,451	7,684
1976	7,401	43,464	31,860	68,427	5,709	8,589
1975	6,880	40,060	27,919	62,836	4,442	7,581
1974	6,002	47,421	40,180	81,074	5,589	6,940
1973	7,112	50,406	36,655	82,467	5,733	5,973
1972	7,508	44,431	33,702	73,415	5,160	7,066
1971	6,552	42,549	26,755	63,694	4,931	7,231
1970	5,437	46,359	29,130	69,293	5,118	6,515

Source: Bureau of Mines.
• Includes scrap received from other plants within the same company.
Similar data not available prior to 1946.

CONSUMPTION BY GRADE

(Thousands of net tons)

	1978 R	1979 P
Carbon steel:		
Low phosphorous plate and punchings	537	540
Cut structurals and plate	835	1,027
No. 1 heavy melting steel	26,202	26,492
No. 2 heavy melting steel	3,858	3,939
No. 1 and electric furnace bundles	11,159	10,367
No. 2 and all other bundles	1,998	2,188
Turnings and borings	1,871	1,869
Slag scrap (Fe content)	4,156	4,724
Shredded or fragmentized	2,496	2,862
No. 1 busheling	1,549	1,586
All other carbon steel scrap	13,277	13,076
Total Carbon Steel	67,938	68,670
Stainless steel	1,022	1,137
Alloy steel (excl. stainless)	1,964	1,947
Iron scrap	4,030	3,902
Other grades or types of scrap	1,290	1,546
TOTAL SCRAP	76,294	77,202

TABLE 32—MONTHLY BLAST FURNACE PRODUCTION PIG IRON AND FERROALLOYS

(Thousands of net tons)

Months	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
January	7,064	6,390	5,985	6,656	7,371	8,582	8,247	6,648	7,835	7,700
February	6,636	5,971	5,827	6,754	7,135	7,823	7,787	6,627	7,409	7,092
March	7,953	6,894	7,174	7,519	8,071	8,407	8,657	7,744	8,562	8,090
April	7,726	7,189	7,382	7,601	7,432	8,253	8,519	7,766	8,464	7,821
May	8,277	7,936	7,962	8,116	6,990	8,408	8,838	8,044	8,827	8,122
June	8,026	7,754	7,530	7,874	6,239	8,205	8,496	7,468	7,974	7,905
July	7,739	7,636	7,008	7,999	5,968	8,358	8,546	7,361	6,877	7,651
August	7,351	7,515	6,763	7,751	6,031	7,872	8,310	7,427	3,707	7,611
September	6,762	7,391	6,526	6,995	6,245	7,732	8,117	7,158	5,167	7,445
October	6,779	7,809	6,595	6,969	6,292	8,206	8,619	7,650	5,559	7,560
November	6,258	7,533	6,108	6,382	5,981	7,270	8,432	7,515	5,388	7,263
December	6,372	7,668	6,419	6,272	6,234	6,752	8,637	8,061	5,970	7,589
TOTAL *	87,003	87,679	81,328	86,870	79,923	95,909	101,208	89,400	81,692	91,816

* Revised totals include adjustments not shown in monthly figures.
Similar data not available prior to 1917.

TABLE 33—PIG IRON SHIPMENTS OTHER THAN FOR OWN USE

(Thousands of net tons)

Year	Basic	Bess. & Low Phos.	Foundry	Malleable and Silvery	Total	Incl. in Total: Hot Metal	Incl. in Total: Cold Metal
1979	538	279	227	811	1,855	1,152	703
1978	677	413	210	799	2,099	1,287	812
1977	663	533	173	737	2,106	1,144	962
1976	530	439	356	836	2,161	1,160	1,001
1975	488	379	291	752	1,910	981	929
1974	743	487	430	1,223	2,883	1,413	1,470
1973	736	598	580	1,398	3,312	1,338	1,974
1972	700	563	571	1,075	2,909	1,195	1,714
1971	463	572	523	1,037	2,595	892	1,703
1970	781	650	828	1,341	3,600	1,213	2,387

Similar data not available prior to 1946.

TABLE 39—PRODUCTION, RECEIPTS, CONSUMPTION AND SHIPMENTS OF COKE BY THE IRON AND STEEL INDUSTRY

(Net tons)

	1979	1978	1977	1976	1975
Production:					
Metallurgical	48,220,587	44,642,794	47,787,822	52,672,933	51,098,265
Other coke	287,898	412,442	320,491	489,964	457,247
Total Production	48,508,485	45,055,236	48,108,313	53,162,897	51,555,512
Receipts, incl. imports	8,552,621	6,668,743	5,057,062	6,334,836	4,256,747
TOTAL PRODUCTION AND RECEIPTS	57,061,106	51,723,979	53,165,375	59,497,733	55,812,259
Consumption:					
Blast furnaces	50,007,909	51,285,554	48,510,335	51,560,667	48,817,451
Foundries	118,963	114,355	84,045	34,154	97,417
Other uses	404,036	725,937	537,441	473,518	477,985
Total Consumption	50,530,908	52,125,846	49,131,821	52,068,339	49,392,853
Shipments to other outside companies	3,224,834	3,449,153	3,598,673	2,079,644	1,175,648
TOTAL CONSUMPTION AND SHIPMENTS	53,755,742	55,574,999	52,730,494	54,147,983	50,568,501

Similar data not available prior to 1954.

TABLE 40—IRON ORE RECEIPTS AND CONSUMPTION 1979

(Thousands of net tons)

	Original Source of Iron Ore							
	United States				Canada			
	Great Lakes (a)	North-eastern (b)	Southern (c)	Western (d)	Great Lakes (e)	Eastern (f)	All Other Foreign Countries	Total Iron Ore
Receipts at plants	80,511	3	1,779	9,207	1,923	22,133	14,243	129,799
Consumption in:								
Blast furnaces	70,408	8	1,697	7,766	2,185	15,048	7,629	104,741*
Steel producing furnaces	128			191	5	98	617	1,039
Agglomerating plants (g)	3,451	53	159	1,182	305	8,163	9,481	22,794
Total Consumption	73,987	61	1,856	9,139	2,495	23,309	17,727	128,574

(a) Michigan, Minnesota, Wisconsin.
(b) New England states, Delaware, New Jersey, New York, Pennsylvania.
(c) Florida, Alabama, Georgia, Missouri, New Mexico, Tennessee, Texas, Virginia.
(d) California, Nevada, Utah, Wyoming, Colorado, Montana, Washington.
(e) Ontario.
(f) Quebec, Newfoundland, Nova Scotia, Labrador, New Brunswick, Prince Edward Island.
(g) Represents plants at other than mine locations.
* Includes 95,205,000 N.T. of agglomerates produced at or near mine site.
Similar data not available prior to 1942.

TABLE 43—INDUSTRY CONSUMPTION OF SCRAP AND PIG IRON BY TYPES OF FURNACES

(Thousands of net tons)

Year	Type of Furnace	Consumed		
		Scrap	Pig Iron	Total
1979 P	Open hearth	10,437	12,870	23,307
	Basic oxygen process	26,526	68,497	95,023
	Electric	34,766	537	35,303
	Cupola	281	143	424
	Direct castings		2,227	2,227
	Blast	4,115		4,115
	Other (Incl. air furnace)	1,077	358	1,435
	TOTAL	77,202	84,632	161,834
1978 R	Open hearth	11,675	13,437	25,112
	Basic oxygen process	26,006	69,028	95,034
	Electric	32,694	1,112	33,806
	Cupola	394	189	583
	Direct castings		1,581	1,581
	Blast	4,185		4,185
	Other (Incl. air furnace)	1,340	354	1,694
	TOTAL	76,294	85,701	161,995
1977	Open hearth	11,009	12,525	23,534
	Basic oxygen process	25,034	63,877	88,911
	Electric	28,188	685	28,873
	Cupola	361	262	623
	Direct castings		1,727	1,727
	Blast	3,771		3,771
	Other (Incl. air furnace)	938	314	1,252
	TOTAL	69,301	79,390	148,691
1976	Open hearth	12,251	15,405	27,656
	Basic oxygen process	26,204	66,138	92,342
	Electric	25,099	383	25,482
	Cupola	405	194	599
	Direct castings		1,736	1,736
	Blast	3,692		3,692
	Other (Incl. air furnace)	776	357	1,133
	TOTAL	68,427	84,213	152,640
1975	Open hearth	11,669	14,545	26,214
	Basic oxygen process	23,392	59,210	82,602
	Electric	23,010	763	23,773
	Cupola	336	167	503
	Direct castings		1,741	1,741
	Blast	3,931		3,931
	Other (Incl. air furnace)	498	407	905
	TOTAL	62,836	76,833	139,669

Source: Bureau of Mines.
Similar data not available prior to 1946.

TABLE 44—CONSUMPTION OF FUELS

Year	Purpose: Blast Furnace Area — Blast Furnaces	Blast Furnace Area — Other Uses	Steel Melting Furnaces	Heating and Annealing Furnaces	Other	Total
FUEL OIL (Thousands of gallons)						
1979	572,945	32,151*	211,603	383,839	228,599	1,429,137
1978	533,101	99,616*	289,518	648,173	333,463	1,903,871
1977	393,625	89,869*	256,330	590,718	368,634‡	1,699,176
1976	445,151	79,825*	185,509	591,906	311,457‡	1,613,848
1975	378,769	37,797*	235,052	529,199‡	268,394	1,449,211
TAR AND PITCH (Thousands of gallons)						
1979	60,208		77,221		1,251	138,680
1978	79,529	†	56,218		10,586	146,333
1977	88,448	†	71,036	†	21,572	181,056
1976	133,136	†	80,616	†	32,142	245,894
1975	114,824	†	104,526	†	22,536	241,886
LIQUID PETROLEUM GAS (Thousands of gallons)						
1979	†	†	†	6,545	7,381	13,926
1978	†	†	†	15,725	9,639	25,364
1977	†	†	†	27,755	11,206	38,961
1976	†	†	†	14,445	11,878‡	26,323
1975	†	†	†	23,950	7,139‡	31,089
NATURAL GAS (Millions of cubic feet—based on 1,000 B.T.U. per cubic foot)						
1979	23,930	35,018*	38,720	514,834	177,486	789,988
1978	23,254	29,675*	56,701	327,302	156,252	593,184
1977	21,305	27,108*	36,953	341,598	140,820	567,784
1976	24,865	19,607*	52,759	333,438	163,635‡	594,304
1975	28,004	23,045*	32,566	334,918‡	158,406	576,939
COKE OVEN GAS (Millions of cubic feet—based on 500 B.T.U. per cubic foot)						
1979	15,980	292,238*	5,004	254,963	197,426	765,611
1978	6,469	264,833*	4,592	250,295	189,476	715,665
1977	7,666	306,206*	4,404	257,985	199,564	775,825
1976	10,051	332,209*	5,309	269,116	254,446‡	871,131
1975	12,232	335,739*	3,862	274,479‡	226,061	852,373
BLAST FURNACE GAS (Millions of cubic feet—based on 95 B.T.U. per cubic foot)						
1979	1,516,885	882,764	†	193,518	1,670,939	4,264,106
1978	1,531,049	1,044,258	†	198,411	1,654,582	4,428,300
1977	1,498,058	1,093,217	. . .	188,430	1,395,172	4,174,877
1976	1,501,873	1,083,026	. . .	121,509	1,611,403	4,317,811
1975	1,337,115	1,223,343*	. . .	118,713	1,478,859	4,158,030

* Includes coke oven underfiring.
‡ Includes heating ovens for wire rods.
Similar data not available prior to 1943.

† Included with "Other".
Similar data not available prior to 1943.

† Included with "Other".
‡ Includes heating ovens for wire rods.
Similar data not available prior to 1951.

* Includes coke oven underfiring.
‡ Includes heating ovens for wire rods.
Similar data not available prior to 1943.

* Includes 286,744 coke oven underfiring in 1975, 291,253 in 1976, 251,408 in 1977, 229,265 in 1978, and 247,958 in 1979.
‡ Includes heating ovens for wire rods.
Similar data not available prior to 1953.

† Included with "Other".
* Includes 256,046 coke oven underfiring in 1975.

TABLE 45—CONSUMPTION OF ELECTRIC POWER BY THE IRON AND STEEL INDUSTRY

(Millions of kilowatt hours)

Year	Generated	Purchased	Total
1979	9,283	50,693	59,976
1978	9,349	48,224	57,573
1977	9,570	44,454	54,024
1976	10,002	44,300	54,302
1975	10,325	40,336	50,661

Similar data not available prior to 1943.

TABLE 46—CONSUMPTION OF OXYGEN BY THE IRON AND STEEL INDUSTRY

(Millions of cubic feet in gaseous form)

	1979	1978	1977	1976	1975
Purchased (a)	244,926	246,288	222,883	225,305	207,195
Produced (b)	26,109	28,673	28,323	27,108	23,282
TOTAL	271,035	274,961	251,206	252,413	230,477
Consumption by Uses:					
Conditioning	17,235	17,548	17,615	16,912	15,293
Scrap preparation	2,090	2,016	1,715	1,494	1,536
Other burning and welding	5,249	7,384	4,364	3,360	3,301
Blast furnaces	35,058	35,641	28,897	26,912	25,923
Steelmaking:					
Open hearth	28,894	34,432	32,228	40,624	32,908
Basic oxygen process	160,602	158,985	150,357	149,239	139,600
Electric	12,915	10,310	7,665	6,400	5,861
Total Steelmaking	202,411	203,727	190,250	196,263	178,369
Maintenance and construction	1,510	1,218	1,054	1,129	1,146
All other	7,482	7,427	7,311	6,343	4,909
TOTAL	271,035	274,961	251,206	252,413	230,477

(a) Purchased from vendors with facilities in or adjacent to plant or facilities located away from plant.
(b) Produced on companies own facilities or leased facilities.
NOTE: Oxygen consumed in liquid form was reduced to its gaseous equivalent in these statistics.
Similar data not available prior to 1956.

CANADIAN STATISTICS

Pig Iron and Ferroalloys Production
Materials Consumed by Blast Furnaces
Raw Steel Production
Shipments of Rolled Steel Products
Imports and Exports
Basic Materials
Pig Iron Consumption

TABLE 50—PRODUCTION OF PIG IRON AND FERROALLOYS

(Net tons)

Year	Pig Iron			Ferro-alloys	Total
	Basic	All Other	Total (a)		
1979	11,464,845	556,588	12,021,433	192,462	12,213,895
1978	10,486,271	909,717	11,395,988	265,042	11,661,030
1977	10,030,103	619,244	10,649,347	213,140	10,862,487
1976	10,104,675	698,554	10,803,229	247,997	11,051,226
1975	9,466,064	620,079	10,086,143	176,359	10,262,502
1974	9,564,449	821,857	10,386,306	273,306	10,659,612
1973	9,627,429	883,565	10,510,994	223,367	10,734,361
1972	8,510,470	853,423	9,363,893	250,694	9,614,587
1971	7,835,632	780,124	8,615,756	212,683	8,828,439
1970	8,337,783	148,843	8,486,626	209,556	8,696,182

(a) Reporting companies only. (Year 1970)
Similar data not available prior to 1903.
Source: Statistics Canada Years 1971-1979.

TABLE 51—MATERIALS CONSUMED BY BLAST FURNACES IN THE PRODUCTION OF PIG IRON

Year	Net Tons			Consumption per Ton of Pig Iron		
	Ore, Cinder, etc.	Limestone	Coke	Ore, Cinder, etc.	Limestone	Coke
1979	18,601,580	469,846	5,458,170	1.547	0.039	0.454
1978	17,215,864	430,699	4,925,123	1.511	0.038	0.432
1977	15,490,321	361,054	4,798,210	1.455	0.034	0.451
1976	15,098,856	818,426	5,131,274	1.398	0.076	0.475
1975	14,161,402	963,125	4,951,237	1.404	0.095	0.491
1974	14,644,037	897,380	5,027,821	1.410	0.086	0.484
1973	15,288,419	950,600	5,109,092	1.455	0.090	0.486
1972	13,350,050	922,373	4,554,183	1.426	0.099	0.486
1971	12,509,832	893,583	4,262,731	1.452	0.104	0.495
1970	13,248,731	1,085,496	4,620,119	1.561	0.128	0.544

Similar data not available prior to 1910.
Source: Statistics Canada Years 1971-1979.

TABLE 52—RAW STEEL PRODUCTION

(Net tons)

Year	Open Hearth	Basic Oxygen Process	Electric	Total (a)	Steel for Castings * Incl. in Total	Alloy Steel Incl. in Total
1979	3,632,219	10,048,152	4,042,636	17,723,007	246,203	2,458,253
1978	3,338,969	9,274,452	3,809,307	16,422,728	187,936	2,039,373
1977	3,174,390	8,766,492	3,084,991	15,025,873	164,353	1,864,649
1976	3,275,098	8,758,757	2,615,367	14,649,222	183,563	1,754,172
1975	3,394,143	8,052,297	2,911,028	14,357,468	239,212	1,437,835
1974	3,775,659	8,106,525	3,135,094	15,017,278	221,838	1,686,879
1973	4,608,197	7,433,896	2,713,286	14,755,379	206,159	1,597,596
1972	5,164,585	5,601,287	2,307,001	13,072,873	181,067	1,243,621
1971	10,265,803	†	1,698,429	11,964,232	205,326	1,046,502
1970	10,433,511	†	1,661,718	12,095,229	132,762	932,479

* Includes only that portion of the steel for castings which was produced in foundries operated by companies producing steel ingots.
† Included with open hearth.
(a) Reporting companies only. (Year 1970)
Similar data not available prior to 1904.
Source: Statistics Canada Years 1971-1979.

TABLE 47—IMPORTS OF IRON ORE BY COUNTRIES

(Thousand gross tons)
Source: Bureau of Mines

Country	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
Australia	183	264	305	617	803	638	464	687	1,008	638
Brazil	3,095	3,979	2,243	5,388	7,526	6,572	3,183	1,115	1,772	1,991
Canada	22,602	19,236	25,283	24,962	19,111	19,702	21,628	18,168	20,342	23,934
Chile	245	390	566	608	931	296	205	308	878	1,581
Liberia	2,190	2,170	1,791	2,153	2,496	2,730	2,734	2,761	1,838	1,873
Mauritania	-	-	-	-	-	-	47	40	-	72
Peru	456	818	1,021	716	1,551	1,810	1,501	1,318	1,063	1,329
Sweden	171	256	154	441	182	335	274	273	178	172
Venezuela	4,564	6,083	6,179	9,001	13,137	15,378	13,148	10,926	12,953	13,026
Other	270	420	363	504	1,005	568	112	165	92	275
Total	33,776	33,616	37,905	44,390	46,742	48,029	43,296	35,761	40,124	44,891

Similar data not available prior to 1901.

TABLE 48—IMPORTS FOR CONSUMPTION OF MANGANESE ORE BY COUNTRIES (35 PERCENT OR MORE MN)*

(Mn content—Net tons)

(*Source:* Bureau of Mines, Department of Interior)

Countries	1979 P	1978	1977	1976	1975	1974	1973	1972	1971	1970
Angola								17,160	27,603	33,535
Australia	55,316	32,598	13,834	117,367	86,542	98,142	61,458	40,261	52,630	32,474
Brazil	51,660	52,095	111,639	161,108	307,367	221,999	299,403	192,825	334,850	292,420
Gabon	48,119	126,962	245,221	269,698	244,795	150,116	193,720	236,819	305,589	241,615
Ghana						4,531	18,600	22,062	37,815	36,171
India								12,401	1,283	37,023
Mexico	2,060	18,355	34,882	18,485	23,172	16,431	40,666	33,643	12,986	16,988
Morocco	10,719	14,522	17,070	18,687		27,505	13,922	13,935	12,730	19,940
Turkey										1,546
Republic of South Africa	41,475	NA	16,882	60,963	92,210	32,909	55,921	68,849	87,358	66,452
Western Africa										19,693
Zaire		13,231	14,700	2,937	11,444	25,291	35,656	138,878	52,834	33,768
Other Countries	22,460	9,472					354	16,765	12,444	14,781
TOTAL	231,809	267,235	454,228	649,245	765,530	576,924	719,700	793,598	938,122	846,706

* Comprises ore received during the year for immediate consumption plus material withdrawn from bonded warehouses; excludes imports for manufacture in bond and export.

Similar data not available prior to 1925.

TABLE 49—IRON ORE SHIPMENTS THROUGH GREAT LAKES

(Thousands of gross tons)

Source: American Iron Ore Association

Shipments	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
By Ports:										
Superior	13,674	12,515	7,742	6,145	6,609	10,004	11,951	10,172	11,000	1,252
Duluth	15,039	13,568	10,687	14,050	14,385	17,832	17,941	14,866	14,222	663
Two Harbors	11,124	9,477	3,201	7,506	8,557	9,014	7,803	6,129	4,405	499
Ashland	...	...	...	...	...	...	...	...	...	462
Marquette	5,332	6,003	3,990	5,436	4,588	2,867	3,392	3,062	3,416	3,946
Escanaba	11,816	11,434	7,890	10,061	9,383	8,220	8,747	9,357	8,359	12,477
Silver Bay	8,267	9,610	4,449	9,694	8,971	10,399	10,878	9,481	9,466	16,505
Taconite Harbor	9,467	8,752	3,501	10,254	10,114	10,456	13,104	10,583	9,220	5,032
Michipicoten (Canada)	...	...	...	74	30	81	165	142	87	...
Depot Harbor (Canada)	227	675	573	622	662	686	725	683	681	8,943
Little Current (Canada)	...	306	608	375	496	582	512	522	471	9,832
Picton (Canada)	...	42	598	451	272	392	464	460	4,317	10,409
Thunder Bay (Canada)	3,801	4,395	4,695	4,127	3,976	4,889	5,152	4,691	638	4,388
Point Noire (Canada)	5,149	3,608	5,108	5,053	2,989	3,915	3,935	...	...	...
Port Cartier (Canada)	2,685	2,592	3,842	4,834	2,968	1,921	2,481	...	...	...
Seven Islands (Canada)	5,473	5,918	10,166	7,965	6,267	6,320	7,295	...	...	...
TOTAL	92,054	88,896	67,050	86,647	80,267	87,578	94,545	70,148	66,282	74,408

Similar data not available prior to 1888.

TABLE 54—IMPORTS OF IRON AND STEEL PRODUCTS

(Net tons)

Products	1979	1978	1977	1976	1975
Steel Mill Products:					
Ingots, blooms, billets, etc.	198,681	59,431	67,601	24,634	117,704
Wire rods	183,251	209,824	193,814	173,376	260,853
Structural shapes (plain 3" and over)	265,138	120,158	188,981	187,121	133,992
Sheet piling	17,582	24,640	19,489	18,012	30,828
Plates	463,675	296,247	233,923	215,982	361,627
Rails and track accessories	22,744	30,459	28,930	26,711	74,427
Concrete reinforcing bars	24,845	26,554	28,833	49,285	27,045
Bar shapes under 3"	17,173	16,864	28,675	50,451	28,192
Bars—Hot rolled—Carbon	67,329	51,673	53,025	66,980	67,735
—Alloy	33,337	41,911	35,381	31,615	41,373
—Cold finished	18,716	17,841	17,180	11,804	16,803
Pipe and tubing	311,898	344,495	224,403	186,436	215,050
Wire drawn	67,129	63,444	70,812	62,885	59,540
Barbed wire	5,087	1,509	1,687	1,298	4,876
Wire nails	19,147	17,472	16,950	18,850	7,334
Tin plate	1,647	1,579	1,898	2,048	7,381
Terne plate	20,674	16,869	18,622	16,580	13,129
Sheets—Hot rolled	289,771	166,321	110,224	75,815	80,019
—Cold rolled	151,936	114,830	97,198	38,748	69,966
Sheet & strip (Coated, incl. galvanized)	147,889	105,871	88,816	89,275	44,595
All other sheet and strip	40,202	38,543	31,686	20,544	36,440
Total Steel Mill Products	2,365,851	1,766,535	1,558,128	1,368,450	1,698,909
Other Steel Products:					
Steel castings and forgings	17,900	15,801	14,168	15,692	21,628
Bars and rods, fabricated	3,831	3,538	3,695	3,784	8,122
Plates, flanged and dished	4,308	4,475	3,833	2,692	4,596
Plates, sheets and strip for saws	9,684	8,275	6,163	5,874	7,182
Plates, fabricated	8,497	4,710	6,894	13,769	10,887
Sheet and strip, fabricated	8,018	4,632	6,562	6,464	6,407
Structural shapes, fabricated	6,265	5,075	11,752	11,644	17,239
Wire strand	3,284	2,914	10,513	9,359	8,178
Wire rope	15,043	11,963	15,151	12,099	16,102
Grinding balls	10,168	12,012	17,773	9,113	9,717
Total Other Steel Products	86,998	73,395	96,504	90,490	110,058
Total Steel Products	2,452,849	1,839,930	1,654,632	1,458,940	1,808,967
Iron Products and Ferroalloys:					
Pig iron	10,927	2,817	13,132	9,740	4,495
Sponge iron	5,762	4,437	4,375	4,265	6,435
Castings and forgings	33,348	19,968	29,788	35,067	27,032
Pipe and tubes, cast iron	1,570	750	888	522	719
Ferroalloys	160,553	94,028	97,856	104,212	130,003
Total Iron Products and Ferroalloys	212,160	122,000	146,039	153,806	168,684
GRAND TOTAL	2,665,009	1,961,930	1,800,671	1,612,746	1,977,651

Source: Statistics Canada.

TABLE 55—EXPORTS OF IRON AND STEEL PRODUCTS

(Net tons)

Products	1979	1978	1977	1976	1975
Steel Mill Products:					
Ingots, blooms, billets, slabs, etc.	133,094	308,666	264,311	143,254	38,819
Wire rods	390,222	344,959	215,293	182,352	93,853
Structural shapes and piling	368,132	356,988	228,232	145,332	99,080
Plates	334,580	303,398	249,788	182,383	169,778
Rail and track accessories	256,953	215,522	151,619	182,738	141,330
Bars—Hot rolled	170,622	150,781	92,371	47,356	43,191
—Cold finished	5,073	5,047	4,780	2,968	4,079
Pipe and tubing	449,106	381,745	282,516	301,573	350,619
Wire, plain and coated	85,595	87,418	66,731	46,234	38,778
Wire nails	78,687	76,496	74,156	56,163	48,160
Sheets and strip	503,614	591,133	556,012	570,860	313,553
Sheets and strip—Galvanized	163,892	212,126	169,791	117,301	64,589
Total Steel Mill Products	2,939,570	3,033,679	2,355,600	1,978,514	1,405,829
Other Steel Products:					
Bars and rods, fabricated	7,453	9,934	7,603	4,301	3,952
Grinding balls	18,725	12,818	9,915	13,635	16,566
Castings and forgings	70,022	57,850	55,257	58,204	48,016
Wire rope and strand	7,137	5,684	3,353	3,965	5,477
Total Other Steel Products	103,337	86,286	76,128	80,105	74,011
Total Steel Products	3,042,907	3,119,965	2,431,728	2,058,619	1,479,840
Iron Products and Ferroalloys:					
Pig iron	281,666	600,447	556,973	310,364	447,838
Sponge iron	152,479	63,273	57,223	114,215	37,927
Iron castings	121,050	139,863	167,763	164,437	107,833
Pipe and tubes, cast iron	8,933	13,918	7,448	7,052	5,767
Ferroalloys	65,975	99,150	77,594	50,500	34,421
Total Iron Products and Ferroalloys	630,103	916,651	867,001	646,568	633,786
GRAND TOTAL	3,673,010	4,036,616	3,298,729	2,705,187	2,113,626

Source: Statistics Canada.

TABLE 56—CONSUMPTION OF COAL BY USES

(Net tons)

Year	In production of		Other Purposes	Total
	Coke	Steam		
1979	7,687,527			7,687,527
1978	7,527,603	D	D	7,531,575
1977	7,267,972	D	D	7,269,273
1976	7,921,648	D	D	7,922,833
1975	7,698,485	D	D	7,699,783
1974	7,866,210	D	D	7,868,740
1973	7,744,613	D	D	7,751,153
1972	6,396,711	D	D	6,406,537
1971	6,194,969	44,908	1,487	6,241,364
1970	6,592,541	74,923	1,619	6,669,083

Similar data not available prior to 1946.

TABLE 57—CONSUMPTION OF COKE BY USES

(Net tons)

Year	In Blast Furnaces *	In Foundries	Other Uses	Total
1979	4,859,435	D	D	4,862,653
1978	4,906,438	D	D	4,908,487
1977	4,837,976	D	D	4,839,327
1976	5,131,134	D	D	5,132,949
1975	4,952,868	D	D	4,997,294
1974	5,020,324	D	D	5,022,952
1973	5,108,794	D	D	5,114,705
1972	4,664,389	D	D	4,669,005
1971	4,373,626	D	D	4,378,594
1970	4,620,119	D	D	4,636,052

* Blast furnaces producing pig iron and ferroalloys.
Similar data not available prior to 1946.

TABLE 58—CONSUMPTION OF FUEL OIL BY USES

(Thousands of gallons)

Year	In Melting Furnaces	In Heating and Annealing Furnaces	Other Purposes	Total
1979	162,770	25,779	5,647	194,196
1978	191,621	30,317	15,145	237,083
1977	158,013	30,111	8,356	196,480
1976	110,254	32,239	9,443	152,936
1975	98,691	28,132	12,813	139,636
1974	117,927	30,321	14,568	162,816
1973	105,221	32,491	18,189	155,901
1972	117,284	37,955	21,024	176,263
1971	136,401	44,160	24,603	205,164
1970	126,523	60,603	16,041	203,167

Similar data not available prior to 1946.

TABLE 59—CONSUMPTION OF FLUXES IN STEELMAKING FURNACES

(Net tons)

Year	Fluorspar	Limestone	Lime	Other Fluxes	Total
1979	33,239	129,620	820,607	131,599	1,115,065
1978	36,839	106,591	801,223	146,925	1,091,578
1977	30,373	89,684	755,408	144,546	1,020,011
1976	26,098	113,352	809,958	99,022	1,048,430
1975	24,408	121,641	755,843	91,466	993,358

Similar data not available prior to 1946.

TABLE 60—CONSUMPTION OF OXYGEN BY THE IRON AND STEEL INDUSTRY

(Millions of cubic feet in gaseous form)

	High * and Low Purity				
	1979	1978	1977	1976	1975
Purchased (a) Produced (b)	34,295	31,502	29,504	31,175	31,426
TOTAL	34,295	31,502	29,504	31,175	31,426
Consumption By Uses:					
Conditioning	2,341	2,177	1,973	1,708	1,533
Scrap preparation	388	379	346	232	101
Other burning and welding	214	258	161	159	181
Blast furnaces	6,763	4,601	4,422	5,783	7,884
Steelmaking:					
Open hearth	4,329	5,294	5,147	5,351	5,116
Basic oxygen process & Electric	18,801	17,400	16,717	16,988	15,436
Total steelmaking	23,130	22,694	21,864	22,339	20,552
Maintenance & construction	20	23	21	24	29
All other	1,439	1,370	717	930	1,146
TOTAL	34,295	31,502	29,504	31,175	31,426

* The term high purity oxygen means a gaseous mixture containing 99.5% by volume, plus or minus 0.1% of pure oxygen.

(a) Purchased from vendors with facilities in or adjacent to plant or facilities located away from plant.

(b) Produced on companies own facilities or leased facilities.

NOTE: Oxygen consumed in liquid form was reduced to its gaseous equivalent in these statistics.

Similar data not available prior to 1960.

TABLE 61—PIG IRON CONSUMPTION

(Net tons)

Year	Steelmaking	Other Than Steelmaking	Total
1979	11,220,477	227,068	11,447,545
1978	10,280,290	331,408	10,611,698
1977	10,012,665	129,505	10,142,170
1976	10,007,407	130,755	10,138,162
1975	9,450,825	111,707	9,562,532

Similar data not available prior to 1949.

WORLD STATISTICS

The following tables covering production of foreign countries were compiled from reports issued by the Bureau of Mines of the United States Department of the Interior, Statistisches Bundesamt, Aussenstelle Dusseldorf, Eisen-und Stahlstatistik, and other Sources.

Iron Ore, Concentrates and Agglomerates Production

Pig Iron Production

Raw Steel Production

TABLE 62—WORLD PRODUCTION OF IRON ORE,

(Thousands of

Countries	1979 P	%	1978 P	%	1977 R	%	1976	%	1975	%
North America										
United States	85,123		81,583	10.3	55,750	6.7	79,264	9.3	78,866	8.9
Canada	66,343		38,996	4.9	52,774	6.4	54,541	6.4	46,128	5.2
Total	151,466	...	120,579	15.2	108,524	13.1	133,805	15.7	124,994	14.1
Latin America										
Argentina			689	...	710	...	246	...	260	...
Brazil			56,607	...	75,314	...	66,033	...	87,096	...
Chile			9,311	...	7,655	...	10,219	...	10,895	...
Colombia			418	...	466	...	591	...	613	...
Mexico			3,386	...	7,348	...	3,445	...	4,548	...
Peru			5,905	...	6,092	...	6,889	...	7,631	...
Venezuela			13,779	...	13,467	...	22,637	...	23,723	...
Total			90,095	11.4	111,052	13.4	110,060	12.9	134,766	15.3
Europe										
Western Europe										
EEC										
Belgium			42	...	46	...	62	...	92	...
France			33,243	...	36,427	...	44,824	...	49,350	...
Denmark			12	...	5	...	8	...		...
Italy			429	...	567	...	637	...	727	...
Luxembourg			1,513	...	822	...	2,046	...	2,278	...
West Germany			1,583		2,824		2,986		4,206	...
United Kingdom			4,173		3,686		4,511		4,419	...
Total EEC			40,995	5.2	44,377	5.4	55,074	6.5	61,072	6.9
Other Western Europe										
Austria			2,744	...	3,396	...	3,725	...	3,772	...
Finland			920	...	1,030	...	1,042	...	754	...
Greece			1,486	...	2,017	...	2,172	...	1,934	...
Norway			3,583	...	3,665	...	3,859	...	4,000	...
Portugal			51	...	51	...	47	...	44	...
Spain			7,972	...	7,774	...	7,783	...	8,481	...
Sweden			21,148	...	25,015	...	29,390	...	30,380	...
Turkey			2,116	...	1,673	...	1,743	...	1,959	...
Yugoslavia			4,527	...	4,381	...	4,193	...	5,156	...
Total Other W. Europe			44,547	5.6	49,002	5.9	53,954	6.3	56,480	6.4
Total W. Europe			85,542	10.8	93,379	11.3	109,028	12.8	117,552	13.3
Eastern Europe (Red Bloc)										
Bulgaria			2,411	...	2,234	...	2,279	...	2,300	...
Czechoslovakia			2,318	...	1,963	...	1,874	...	1,745	...
East Germany			81	...	65	...	58	...	58	...
Hungary			526	...	517	...	594	...	380	...
Poland			556	...	649	...	663	...	1,173	...
Rumania			2,461	...	2,707	...	2,756	...	3,017	...
U.S.S.R.			236,998	...	235,931	...	235,333	...	229,127	...
Total E. Europe			245,051	30.8	244,066	29.5	243,557	28.5	237,800	26.9
Total Europe			330,593	41.6	337,445	40.8	352,585	41.3	355,352	40.2

NOT AVAILABLE

CONCENTRATES AND AGGLOMERATES BY COUNTRIES

gross tons)

Countries	1979 P	%	1978 P	%	1977 R	%	1976	%	1975	%
Africa										
Algeria			2,756	...	2,756	...	3,149		3,248	...
Angola			4,921		4,921	...	5,413		3,543	...
Liberia			18,208	...	17,913	...	26,574		35,924	...
Mauritania			9,842	...	9,645	...	8,366		8,366	...
Morocco			98	...	401	...	436		545	...
Rhodesia			591	...	541	...	591		591	...
Sierra Leone			1,476	...	1,476	...	1,575		2,461	...
South Africa, Republic of			23,218	...	25,818	...	15,437		11,014	...
Swaziland			1,476	...	1,945	...	1,901		2,197	...
Tunisia			320	...	338	...	486		642	...
Total			62,906	7.9	65,754	8.0	63,928	7.5	68,531	7.8
Middle East										
Iran			591	...	591	...	620		640	...
United Arab Republic (Egypt)			1,250	...	1,402	...	1,223		1,103	...
Total			1,841	0.2	1,993	0.2	1,843	0.2	1,743	0.2
Far East										
Hong Kong			30	...	30	...	36		158	...
India			32,971	...	41,604	...	41,973		39,635	...
Japan			596	...	673	...	744		927	...
Malaysia			310	...	321	...	304		343	...
Philippines			591	...	591	...	1,329		1,331	...
South Korea			689	...	647	...	612		517	...
Thailand			59	...	62	...	24		31	...
Total			35,246	4.4	43,928	5.3	45,022	5.2	42,942	4.9
Far East (Red Bloc)										
China			63,974	...	54,132	...	47,242		50,195	...
North Korea			8,858	...	8,267	...	8,071		8,071	...
Total			72,832	9.2	62,399	7.6	55,313	6.5	58,266	6.6
Oceania										
Australia			80,371	10.1	95,926	11.6	91,650	10.7	95,828	10.9
TOTAL WORLD			794,463	100.0	827,021	100.0	854,206	100.0	882,422	100.0

NOT AVAILABLE

Source: United States—Bureau of Mines; other countries—Statistical Quarterly Report for Iron and Steel Industry, Statistisches Bundesamt, Aussenstelle Düsseldorf, Eisen-und Stahlstatistik.
Similar data not available prior to 1885.
NOTE: 1979 preliminary data for foreign countries was not available at the time this Report went to press.

TABLE 63—WORLD PRODUCTION

(Thousands of

Countries	1979 P	%	1978 R	%	1977	%	1976	%	1975	%
North America										
United States	87,003	15.0	87,679	15.7	81,328	15.2	86,870	16.2	79,923	15.4
Canada	12,021	2.1	11,396	2.0	10,649	2.0	10,803	2.0	10,086	2.0
Total	99,024	17.1	99,075	17.7	91,977	17.2	97,673	18.2	90,009	17.4
Latin America										
Argentina	2,149		2,005		1,213		1,420		1,144	
Brazil	11,629		11,368		10,788		9,295		8,003	
Chile	661		594		476		444		460	
Colombia	303		327		246		315		327	
Mexico	5,732		5,661		4,772		3,877		3,264	
Peru	331		271		269		249		338	
Venezuela	882		759		548		464		590	
Total	21,687	3.7	20,985	3.8	18,312	3.4	16,064	3.0	14,126	2.7
Europe										
Western Europe										
EEC										
Belgium	11,969		11,164		9,898		10,980		10,119	
Luxembourg	4,190		4,102		3,933		4,140		4,287	
France	21,390		20,389		20,125		20,970		19,754	
Italy	12,551		12,572		12,648		12,893		12,579	
Netherlands	5,305		5,085		4,323		4,701		4,376	
West Germany	38,765		33,232		31,922		35,107		33,151	
United Kingdom	14,437		12,604		13,667		15,456		13,372	
Total EEC	108,607	18.8	99,148	17.7	96,516	18.0	104,247	19.4	97,638	18.8
Other Western Europe										
Austria	4,090		3,395		3,268		3,659		3,369	
Finland	2,232		2,048		1,944		1,465		1,508	
Greece	661		661							
Norway	716		613		604		713		703	
Portugal	397		389		394		379		360	
Spain	7,055		6,867		7,391		7,304		7,542	
Sweden	3,031		2,605		2,568		3,254		3,648	
Switzerland	39		39		30		25		39	
Turkey	1,102		1,102		1,500		1,338		1,474	
Yugoslavia	2,260		2,294		2,126		2,115		2,206	
Total Other W. Europe	21,583	3.7	20,013	3.6	19,825	3.7	20,252	3.8	20,849	4.0
Total Western Europe	130,190	22.5	119,161	21.3	116,341	21.7	124,499	23.2	118,487	22.8

OF PIG IRON BY COUNTRIES

net tons)

Countries	1979 P	%	1978 R	%	1977	%	1976	%	1975	%
Eastern Europe (Red Bloc)										
Bulgaria	1,709		1,646		1,779		1,717		1,663	
Czechoslovakia	11,078		10,961		10,709		10,444		10,240	
East Germany	2,756		2,822		2,900		2,787		2,707	
Hungary	2,590		2,568		2,520		2,448		2,446	
Poland	12,247		12,384		10,637		8,858		8,545	
Rumania	9,094		8,989		8,267		7,330		7,277	
U.S.S.R.	120,151		122,027		118,352		116,165		113,502	
Total Eastern Europe	159,625	27.6	161,397	28.9	155,164	28.9	149,749	27.8	146,380	28.2
Total Europe	289,815	50.1	280,538	50.2	271,505	50.6	274,248	51.0	264,867	51.0
Africa										
Rhodesia	331		331		353		331		342	
South Africa, Republic of	7,716		6,534		6,717		6,388		5,729	
Algeria	441		441		165		165		159	
Tunisia	165		165		165		119		159	
Total	8,653	1.5	7,471	1.3	7,400	1.4	7,003	1.3	6,389	1.2
Middle East										
Iran	220		276							
United Arab Republic (Egypt)	661		661		276	0.1	276		276	0.1
Total	881	0.1	937	0.2	276	0.1	276		276	0.1
Far East										
India	9,590		10,217		10,780		10,776		9,208	
Japan	92,020		86,629		94,672		95,433		95,765	
South Korea	5,567		3,021		2,674		2,218		1,316	
Taiwan	419		303		661		116		513	
Thailand	17		17		13		17		18	
Total	107,613	18.6	100,187	17.9	108,800	20.3	108,560	20.2	106,825	20.6
Far East (Red Bloc)										
China	40,267		38,349		26,455		22,046		24,802	
North Korea	3,527		3,527		3,638		3,527		3,417	
Total	43,794	7.6	41,876	7.5	30,093	5.6	25,573	4.8	28,219	5.4
Oceania										
Australia	7,496	1.3	8,088	1.4	7,444	1.4	8,176	1.5	8,241	1.6
TOTAL WORLD	578,963	100.0	559,177	100.0	535,807	100.0	537,573	100.0	518,952	100.0

NOTE: Detail does not necessarily add to totals.
Source: United States—American Iron and Steel Institute; Canada—Statistics Canada. Other countries—Statistical Quarterly Report for Iron and Steel Industry, Statistisches Bundesamt, Aussenstelle Dusseldorf, Eisen-und Stahlstatistik.
Similar data not available prior to 1866.

TABLE 64—WORLD PRODUCTION OF

(Thousands

Countries	1979 P	%	1978 R	%	1977	%	1976	%	1975	%
North America										
United States	136,341	16.5	137,031	17.3	125,333	16.9	128,000	17.2	116,642	16.4
Canada	17,723	2.2	16,423	2.1	15,026	2.0	14,649	1.9	14,357	2.0
Total	154,064	18.7	153,454	19.4	140,359	18.9	142,649	19.1	130,999	18.4
Latin America										
Argentina	3,526		3,067		2,959		2,657		2,434	
Brazil	15,314		13,454		12,306		10,200		9,245	
Chile	708		679		621		554		560	
Colombia	398		430		359		408		430	
Cuba	331		331		331		331		331	
Mexico	7,722		7,398		6,121		5,829		5,822	
Peru	481		416		418		347		474	
Venezuela	1,660		948		885		1,032		1,172	
Others	123		80		87		32		29	
Total	30,263	3.7	26,803	3.4	24,087	3.2	21,390	2.9	20,497	2.9
Europe										
Western Europe										
EEC										
Belgium-Luxembourg	20,273		19,170		17,178		18,420		17,864	
Denmark	886		951		755		796		614	
France	25,750		25,178		24,365		25,603		23,734	
West Germany	50,750		45,474		42,972		46,752		44,547	
Ireland	79		76		52		64		89	
Italy	26,731		26,767		25,722		25,855		24,102	
Netherlands	6,400		6,154		5,426		5,708		5,310	
United Kingdom	23,749		22,451		22,561		24,761		21,868	
Total EEC	154,618	18.7	146,221	18.5	139,031	18.8	147,959	19.9	138,128	19.4
Other Western Europe										
Austria	5,420		4,779		4,777		4,934		4,485	
Finland	2,716		2,572		2,539		1,818		1,781	
Greece	1,102		1,032		1,102		1,224		992	
Norway	982		879		879		977		982	
Portugal	739		689		586		508		488	
Spain	13,501		12,499		12,312		12,106		12,238	
Sweden	5,217		4,767		4,374		5,665		6,185	
Switzerland	977		864		723		595		463	
Turkey	2,641		2,394		2,056		2,174		1,877	
Yugoslavia	3,897		3,810		3,508		3,032		3,214	
Total Other W. Europe	37,192	4.5	34,285	4.3	32,856	4.4	33,033	4.4	32,705	4.6
Total Western Europe	191,810	23.2	180,506	22.8	171,887	23.2	180,992	24.3	170,833	24.0

RAW STEEL BY COUNTRIES

of net tons)

Countries	1979 P	%	1978 R	%	1977	%	1976	%	1975	%
Eastern Europe (Red Bloc)										
Bulgaria	2,683		2,722		2,853		2,712		2,497	
Czechoslovakia	16,314		16,859		16,594		16,196		15,789	
East Germany	7,676		7,690		7,551		7,430		7,143	
Hungary	4,299		4,274		4,104		4,026		4,047	
Poland	21,164		21,219		19,666		16,909		16,542	
Rumania	14,230		12,984		12,629		12,092		10,526	
U.S.S.R.	164,244		166,929		161,659		159,614		155,784	
Total Eastern Europe	230,560	28.0	232,677	29.5	225,056	30.3	218,979	29.4	212,328	29.8
Total Europe	422,370	51.2	413,183	52.3	396,943	53.5	399,971	53.7	383,161	53.8
Africa										
Rhodesia	816		772		551		551		551	
Republic of South Africa	9,784		8,710		8,053		7,833		7,530	
Others	992		970		680		637		519	
Total	11,592	1.4	10,452	1.3	9,284	1.2	9,021	1.2	8,600	1.2
Middle East										
Egypt	882		661		661		551		551	
Israel	118		104		79		77		66	
Iran	1,576		1,433		716		661		607	
Other	624		201		56		17		17	
Total	3,200	0.4	2,399	0.3	1,512	0.2	1,306	0.2	1,241	0.1
Far East										
India	11,162		11,132		11,033		10,322		8,809	
Japan	123,181		112,551		112,882		118,370		112,781	
South Korea	8,389		5,477		4,677		3,875		2,198	
Taiwan	4,685		3,783		1,951		1,795		1,113	
Others	2,114		1,817		1,179		1,334		1,072	
Total	149,531	18.1	134,760	17.1	131,722	17.8	135,696	18.2	125,973	17.7
Far East (Red Bloc)										
China	37,953		35,031		25,794		23,149		29,211	
North Korea	5,842		5,600		3,472		3,307		3,197	
Total	43,795	5.3	40,631	5.1	29,266	4.0	26,456	3.5	32,408	4.6
Oceania										
Australia	8,950		8,373		8,084		8,591		8,674	
New Zealand	252		248		240		236		204	
Philippines	438		304		331		276		276	
Total	9,640	1.2	8,925	1.1	8,655	1.2	9,103	1.2	9,154	1.3
Total Free World	550,100	66.7	517,299	65.4	487,506	65.7	500,157	67.1	467,297	65.6
Total Red Bloc	274,355	33.3	273,308	34.6	254,322	34.3	245,435	32.9	244,736	34.4
TOTAL WORLD	824,455	100.0	790,607	100.0	741,828	100.0	745,592	100.00	712,033	100.0

NOTE: United States data excludes steel shipped by foundries which reported their output to the Bureau of Census, but did not report to American Iron and Steel Institute as follows: 1979—2,029 P; 1978—1,857 P; 1977—1,717; 1976—1,804; 1975—1,937 (in thousands of net tons). Similar data not available prior to 1866.

TABLE 53—NET SHIPMENTS OF ROLLED STEEL PRODUCTS

(Net tons)

Products	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
Ingots and semifinished shapes	551,343	671,919	640,276	490,926	399,575	500,995	388,853	323,935	448,723	503,817
Rails	389,919	290,724	350,446	388,751	371,546	316,981	301,986	170,176	297,618	353,225
Wire Rods	1,257,889	1,100,126	863,872	804,085	630,822	858,111	801,185	690,256	611,396	568,569
Structural shapes and piling	919,602	891,647	668,854	563,104	600,274	654,242	636,369	636,597	557,592	618,858
Bar sized shapes	230,484	215,002	156,311	119,354	126,212	150,182	164,204	151,696	144,220	137,293
Concrete reinforcing bars	584,086	633,338	545,742	534,280	611,461	772,052	757,391	707,126	755,645	730,755
Other hot rolled bars	1,343,722	1,260,283	1,098,700	1,011,897	950,446	1,073,099	1,048,969	894,165	799,877	807,834
Tie plates and track material	79,021	70,312	75,072	80,420	87,221	77,818	55,673	67,664	83,765	91,765
Plates (Incl. plates for pipe & tube)	1,874,681	1,636,158	1,253,259	1,163,917	1,605,522	1,412,697	1,345,722	1,285,260	1,174,222	1,255,400
Hot rolled sheets	2,818,510	2,728,914	2,691,196	2,700,730	2,458,085	2,504,116	1,925,619	1,743,331	1,384,203	1,256,013
Hot rolled strip							543,760	444,018	396,506	351,364
Cold finished bars	130,701	108,942	93,973	84,046	88,044	102,812	98,415	82,334	68,799	67,391
Cold reduced sheets and strip, cold rolled other	2,134,726	2,107,878	1,955,483	1,945,350	1,678,624	2,044,330	1,956,939	1,845,192	1,788,716	1,711,761
Galvanized sheets	1,175,237	1,173,534	983,273	911,542	844,265	971,791	910,623	788,116	709,466	630,560
Total net shipments	13,480,924	12,888,777	11,376,457	10,798,402	10,452,097	11,439,226	10,935,708	9,829,866	9,220,748	9,084,605

Source: Statistics Canada.

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TABLE 16—SHIPMENTS OF STEEL PRODUCTS BY MARKET CLASSIFICATION—1979
ALL GRADES (INCLUDING CARBON, ALLOY AND STAINLESS)

(Net tons)

Products	Steel for Converting and Processing: Total Shipments	Steel for Converting and Processing: Less Shipments to Reporting Companies	Steel for Converting and Processing: Net Shipments	Independent Forgings (Not elsewhere classified)	Industrial Fasteners	Steel Service Centers and Distributors	Construction Including Maintenance	Contractors' Products	Automotive	Rail Transportation	Shipbuilding and Marine Equipment	Aircraft and Aerospace	Oil and Gas Drilling	Mining, Quarrying and Lumbering	Agricultural	Machinery, Industrial Equipment and Tools	Electrical Equipment	Appliances, Utensils, and Cutlery	Other Domestic and Commercial Equipment	Containers, Packaging and Shipping Materials	Ordnance and Other Military	Export (Reporting Companies Only)	Non-classified Shipments	Total	%
Ingots, blooms, billets, slabs, sheet bars and tube rounds	486,482	242,576	243,906	601,960	385	130,716	155,884	1,706	237,610	11,571	11	15,090	74,713	724	22,779	218,770	395	23	449	25,999	74,795	844,934	361,301	2,599,817	2.6
Skelp	328,073	94,025	34,048			93	314									58						54		34,574	
Wire rods	1,535,045	300,741	1,234,304		270,637	61,620	63,768	100,411	62,056	5	10	31	42	37	24,965	471,441	5,330	1,199	168,386	1,419	29	31,653	362,444	2,561,289	2.5
Structural shapes (heavy)	4,038	442	3,596			1,335,310	2,409,608	25,935	62,053	397,521	111,709	318	48,096	16,255	36,544	223,430	8,065	403	3,305	1,612	1,013	109,841	517,660	5,302,774	5.3
Steel piling						36,728	237,014			2,121	2,739		378	1,243								12,112		293,365	0.3
Plates	118,097	29,964	88,133	4,077	13,650	1,896,274	1,941,427	138,528	264,930	864,854	712,528	8,510	202,410	104,673	212,856	1,679,637	193,185	7,723	35,309	8,201	34,169	140,765	474,262	9,085,185	8.9
Rails						19,196	32,274			1,038,206	930			12,889		3,760						23,473	9,509	1,170,228	1.2
Rail Accessories	155		155			12,653	5,589			425,281				3,424		8					66	2,937	8,034	457,747	0.5
Wheels (rolled and forged)	1		1			2,121	5,266			163,310	17			2,172		5,940						585		179,662	0.2
Axles							688			215,373				629		271						1,251		218,212	0.2
Bars—Hot rolled (including light shapes)	1,503,812	1,242,046	261,266	642,600	336,715	1,316,622	396,469	84,803	2,256,080	208,977	29,229	13,530	171,573	324,990	315,775	1,045,747	104,255	17,061	64,435	1,375	14,419	66,833	2,161,621	9,955,856	9.9
—Reinforcing	78,340	74,337	4,003			233,428	2,040,159	9,775					46	19,434	25		1,081		65			17,019	2,976,356	5,309,221	5.3
—Cold finished	6,306	1,656	4,650	4,131	42,458	531,926	4,769	27,010	250,987	4,659	3,747	6,698	8,339	7,281	66,060	499,292	27,875	19,739	28,757	7	11,400	8,042	776,904	2,247,265	2.2
Tool steel	1,321	1,279	42	1,307	74	16,324	746		8	4		193		91		5,145			4	23		9	70,645	94,750	0.1
Pipe and tubing—Standard	190,491	114,388	76,103		20	1,164,098	139,561	108,610	1,335	3,581	1,139		182,701	4,621	10,063	20,446	127,587	1,427	14,906	1,809		43,362	51,015	1,952,437	1.9
—Oil country goods	141,180	119,453	21,727			179,519	17,379	122					1,062,487							2,018		270,257	9,817	2,477,734	2.5
—Line	20,490	4,687	15,803			386,828	50,529	9,359	147	443	10		856,547	1,235	992	648	3,216		602			128,673	115,561	1,565,778	1.6
—Mechanical	35,278	28,567	6,706			319,044	6,557	31,300	203,927	6,659	112	2,111	62,531	4,016	31,015	423,451	5,365	4,764	16,215	620	2,706	27,476	373,245	1,506,519	1.5
—Pressure	5,074	4,840	234			52,718	2,753	1,780	50	90	226	11	5,782	1,699		76,029	361		873	5,821	130	4,337	37,148	189,542	0.2
—Structural	4,778	1,810	2,968			268,776	21,386	8,466	1,836	775			143,261	316	17,503	2,204	24,920	7	1,951	745		2,168	43,702	540,984	0.5
—Stainless	2,780	2,218	562			20,703	877	414	28		629	145	2,163	29	8	7,793	276	293	620	43	53	475	11,354	48,350	
Wire—Drawn	416,679	26,900	389,779		166,895	226,825	261,285	153,702	71,463	3,208	72	108	465	8,031	13,418	123,148	16,765	27,014	229,118	36,827	3,170	7,817	175,072	1,615,172	1.6
—Nails and staples	5,526	886	4,640			205,634	40,749	43	38	180	25		24	70	310	1,569	927	17	134	1,826		93	1,640	257,836	0.3
—Other merchant wire products	6,388	1,845	4,543			187,038	51,849	196	456	573			16	491	7,684	1,002	13		206	2,626	1	884	13,659	271,307	0.3
Black plate	43,213	1,427	41,786		23	114,415	15,269	58,286	12,444				221	5		2,764	17,929	1,200	42,610	279,370		25,163		625,740	0.6
Tin plate	20,553		20,553			282,686	488	4,100	90,662	82			69		64	5,679	16,929	20,050	32,674	3,866,308	2*	278,127		4,840,750	4.8
Tin free steel	1,839		1,839			20,004	8	209	1,608	14						1,137	91		174	973,196		24,608		1,022,585	1.0
Tin Mill products—All other	329		329			13,787	20	2,363	45,697							1,454	236	2,628	4,262	3,007	46	966		74,787	0.1
Sheets—Hot rolled	9,019,802	1,197,823	7,841,979		66,632	3,608,615	982,732	596,653	5,723,044	563,897	53,901	2,527	4,469	38,613	569,177	503,020	273,092	173,034	285,527	380,714	14,172	172,471	1,257	15,945,126	15.9
—Cold rolled	670,577	60,470	611,405	10	6,980	3,511,887	111,927	951,712	6,910,082	11,951	1,359	2,849	5,172	1,754	96,664	375,876	1,265,645	1,457,690	956,643	924,776	26,850	40,364	89	17,253,885	17.2
Sheets and strip—Galvanized	55,772	1,097	54,675		4,328	1,613,742	801,028	1,326,408	1,400,550	37,534	1,887	158	1,131	2,019	431,953	62,906	126,222	260,406	138,934	41,501	9,021	29,749		6,341,721	6.3
—All other metallic coated	10,377	1,458	8,919		77	118,808	126,682	59,336	510,051	346	1,392			2,256	7,200	24,053	12,416	38,023	16,617	5,678	72	13,117		575,074	0.6
—Electrical	4,060	180	4,780			69,256			9,456	4,583	165	4	1,132	214	767	19,458	526,038	2,803	3,586			54,722	579	696,905	0.7
Strip—Hot rolled	173,951	147,164	26,787	161	20,476	66,405	51,481	18,228	346,293	40,351	737	5,994	4,404	9,427	81,503	165,503	31,119	10,648	19,419	54,027	2,405	13,107	10,241	983,950	1.0
—Cold rolled	51,027	4,446	47,481		3,097	99,444	1,419	25,994	158,039	1,715	762	1,666	947	138	22,371	56,899	29,290	67,849	56,586	156,303	11,586	22,784	464,663	1,230,305	1.2
TOTAL—ALL GRADES	8,771,018	3,666,723	5,057,893	1,254,510	933,567	18,246,243	9,977,954	3,745,449	18,620,960	4,110,867	923,669	59,043	3,739,123	568,830	1,970,656	5,996,468	2,818,914	2,140,015	2,072,769	6,771,608	204,712	2,007,480	9,040,642	100,282,123	100.0
%			5.0	1.2	0.9	18.2	10.0	3.7	18.6	4.1	0.9	0.1	3.7	0.6	2.0	6.0	2.8	2.1	2.1	6.8	0.2	2.0	9.0	100.0	

Similar data not available prior to 1940.

TABLE 20—EXPORTS OF IRON AND STEEL PRODUCTS BY COUNTRIES OF DESTINATION 1979

(Net Tons)

| Product | GRAND TOTAL | Latin America | | | | | | | | | | | | | | | Europe | | | | | | | | | | | | | | |

TABLE 24—IMPORTS OF IRON AND STEEL PRODUCTS BY COUNTRIES OF ORIGIN—1979

(Net tons)

Product	GRAND TOTAL	Canada	Mexico	Bahama Is.	Dom. Republic	Venezuela	Chile	Brazil	Argentina	Total Latin America	Sweden	Norway
Steel Mill Products												
Ingots, blooms, billets, slabs, etc.	374,092	72,956	47					59,316		59,377	72,300	—
Wire rods	98,113	338,677	108					33		531	17,979	8
Structural shapes, plates & misc.	1,473,945	1,373,241	1,506					78,574	9,893	85,223	—	—
Sheet piling	104,215	1,101	—					—	—	—	—	—
Plates	219,762	3,962	4					215,893		215,893	44,161	—
Rail and track accessories	21,476	21,476	—					—	—	—	—	—
Wheels and axles	59,432	17,955	3,138					3,102		6,389	36	—
Concrete reinforcing bars	176,971	5,500	11,603					29,324		10,987	—	4,251
Bars (hot rolled)	1,014,787	1,000,126	1,317					1,154	7,174	10,128	1	—
Bars (hot rolled) Carbon	1,145,753	1,117,862	73					24,116	3,634	28,088	117	—
Bars (hot rolled) Alloy	13,906	12,122	—					1,606	178	1,918	2,777	191
Bars (cold finished)	71,305	1,747	—					2,147	2,001	4,672	2,837	—
Bars (rolled from purchased rods)	3,196	3,196	—					—	—	—	196	—
Welded pipe and tubing	127,040	74,743	71,651	671			9,207	10,736		127,223	1,015	—
Other pipe and tubing	153,734	101,656	1,181				861	5,620	7,476	17,182	14,323	—
Rails (heavy) (rerolled)	1,000	1,000	—					—	—	—	—	—
Rails (heavy) (not rerolled)	1,000	1,000	—					2,117	184	2,926	14,159	1,161
Rails (light)	14,335	14,335	—					222	—	222	14,120	—
Splice bars	39	39	—					—	—	—	—	—
Wire rope and wire fencing	11,767	11,767	1,317					—	—	3,256	—	—
Wire (other)	78,844	78,805	2,706		370		348	1	—	2,925	4	—
Tinplate	20,134	20,134	1,000		100			81	4,418	7,842	—	—
Blackplate	5,020	5,020	—					—	—	—	—	—
Tinplate	13,228	13,228	—					10	—	10	—	—
Terne plate	9,223	9,223	—					—	—	—	—	—
Sheet (hot rolled)	2,341,272	2,247,771	4					18,281		18,326	7,008	—
Sheet (cold rolled)	1,178,217	1,170,957	1,260					4,765		10,333	6,247	—
Sheet (hot rolled) (galvanized)	1,239,134	1,234,917	1,169					—		1,449	161	—
Sheet (coated) Alloy	1,000	1,000	—					—		—	—	—
Strip (hot rolled)	74,147	14,193	—					260	1,480	1,740	1	—
Strip (cold rolled)	78,844	78,805	2,706					—		550	3,276	—
Strip (hot & cold rolled) Alloy	11,058	3,177	20					—		20	2,656	—
Strip (other) Carbon coated	1,000	1,000	—					13		1,013	—	—
Total Steel Mill Product	17,343,193	13,213,868	116,912	671	470	10,108	418	482,258	37,579	647,466	221,081	5,611
Coke	16,670,951	2,584,913	158,921	621	500	10,103	418	134,146	30,161	635,147	125,490	5,412
Pig iron	1,000,000	1,000,000	—	—	—	—	—	3,231	1,979	7,114	11,757	—
Scrap	160,167	8,213	1,174	—	—	5	—	2,001	427	2,433	26,832	171
Other Iron Products												
Steel castings, fabricated	180,417	99,656	3,886			33				2,914	893	142
Shapes, cold formed	4,224	4,224	4							4	33	—
Steel castings	1,000	1,000	1							—	—	—
Forgings, iron & steel	2,031	1,021	312			146				1,958	—	—
Wire, screen cloth	11,766	11,766	42							6	—	—
Wire, fencing	111,766	111,766	1,317	113		31	18	1,413	1	1,744	11	1,317
Wire, nails	123,225	123,225	9,043	638		38		6,115	1	6,155	1	1
Wire, other	116,555	116,555	5,014	1						5,014	1,664	
Bolts, nuts, screws	10,254	10,254	1,000	1				655		1,000		171
Rivets	1,000	1,000	—	—						1,131		
Chain	19,247	17,200	1,601					474	3,600	5,774	1	1
Springs, except flat rolled	4,000	4,000	1					2		3	30	
Springs, flat rolled	4,000	4,000	—							—	—	
Horseshoes	11,711	11,711	14			195		2,235		2,567	526	2,000
Total Other Iron Products	1,148,131	585,926	13,316		572	341	19	16,578	3,614	31,612	1,068	1,832
Total Iron & Steel Products	18,860,476	13,756,299	172,943	5,659	1,341	10,449	367	142,816	41,193	677,687	308,699	10,416
Iron & Steel Scrap												
Bearings, parts & blooms, etc.	65	1	1							1		
Cast iron pipe and fittings	1,000	1,000	—							700		
Other cast iron pipe and fittings	4,241	3,941	37					33		570	2	—
Malleable cast iron pipe fittings	12,241	12,241	1					1,000		1,000	—	—
Cast iron and forgings	113,956	6,158	6,562					5,192	10	11,752	765	
Pig iron	126,881	18,667								18,924	9,668	
Steelmaking (manganese content)	1,000	1,000					33,797	1		33,797	11,726	
Ferromanganese (manganese content)	68,724	8,857	50,551					22,402		73,027		48,270
Ferrosilicon (silicon content)	21,661	11,462					9,987	101	72,019	108	29,011	28,123
Ferrochromium-chromium content	12,501							10	805	2,749	27	3,204	8,850	345
Other ferroalloys	20,206	818	1,017		9,871		42	23,179		34,709	134	16,885
Total Iron Product & Ferroalloy	1,000,000	1,000,000	—					—	—	—	—	—
GRAND TOTAL	20,276,543	13,802,162	311,867	5,659	11,212	54,233	870	690,071	41,641	1,919,650	229,234	99,349
Iron and Steel Scrap	760,978	661,658	99,561	3,021	25			18		24,406	5,154	

[1] Includes totals for Ireland and Denmark.
Separate data not available prior to 1961.
Country total may not add to regional total because of omissions of some countries.

Product	Europe																				Asia								Australia & Oceania			Africa	
	European Economic Community																															
	United Kingdom	Netherlands	Belgium-Luxembourg	France	Federal Republic of Germany	Italy	Total * E.E.C.	Finland	Austria	Czechoslovakia	Switzerland	Poland	Spain	Yugoslavia	Greece	Romania	Total Europe	Israel	India	People's Republic of China	Korean Republic	China Taiwan	Japan	Total Asia	Australia	New Zealand	Total Australia & Oceania	Republic of South Africa	Total Africa
Steel Mill Products																																
Ingots, blooms, billets, slabs, etc.	74,329		818	1,527	3,084	6,053	85,811	—	—	—	—	—	63	—	—	—	158,204	—	—	—	76,111	—	2,800	78,911	—	—	—	782	782
Wire rods	13,289	11,111	32,005	111,845	59,186	3,573	231,052	1,708	1,821	8,561	—	—	685	—	—	—	261,871	—	1	—	3,042	—	3,810	3,810	—	—	—	2,264	2,264
Structural shapes, plates & misc.	97,828	452	378,810	76,153	134,758	150	688,149	—	512	—	5	740	96,981	—	—	—	740,830	—	15	—	7,292	1,184	647,187	656,166	1,146	1,146	102,568	102,568
Sheet piling	11,142	—	33,296	27,945	28,671	—	101,054	—	—	—	—	—	—	—	—	—	101,054	—	—	—	—	—	—	—	—	—	—	—	—
Plates	16,759	33,161	217,691	124,992	286,092	46,137	683,982	95,708	3,188	23	76	86,035	75,097	17	—	15,093	1,000,750	—	3	—	122,473	2,999	140,833	267,307	7,104	4,113	11,766	18,209	18,209
Rail and track accessories	11,197	—	7,872	18,049	17,243	291	54,652	—	1,711	—	—	—	—	—	—	—	86,371	—	33	—	—	—	33,108	33,141	—	—	—	—	—
Wheels and axles	124	317	7,872	43,758	42	1,255	45,496	—	—	—	12	—	—	—	—	—	45,544	—	—	—	—	3	20,615	20,618	—	—	—	—	—
Concrete reinforcing bars	3,361	766	812	377	841	8,393	10,656	—	—	—	—	—	213	—	—	—	14,520	—	—	—	1,311	33,757	23,785	58,853	—	—	—	19,365	19,365
Bars (hot rolled) Carbon	87,703	18	29,599	1,096	345	39,454	158,215	—	23	—	—	593	362	57,734	—	—	216,882	—	19	—	21,479	2,141	96,141	119,780	19	—	19	4,324	4,343
Bars (hot rolled) Alloy	1,008	122	15	5,599	2,806	561	10,096	—	2,649	—	—	21	558	1,678	—	—	15,002	—	13,514	—	11,711	1,736	1,736	28,697	—	—	—	4,764	4,764
Bars (cold finished)	14,260	27	683	37,168	2,594	2,031	56,763	3,035	1,521	—	—	132	284	16,186	—	—	78,118	—	—	—	765	82	61,671	61,753	10	—	10	3,238	3,248
Bars (rolled from purchased rods)	196	—	—	—	—	—	196	—	—	—	—	—	231	—	—	—	427	—	—	—	—	—	60	60	—	—	—	69	69
Welded pipe and tubing	12,013	2,260	12,412	298	16,606	34,111	77,700	—	—	667	286	5,519	32,861	744	36,587	7,140	162,919	1,318	1,612	—	378,238	75,256	17,857	473,281	18,910	11	18,921	30,063	30,063
Other pipe and tubing	23,696	1,347	3,432	3,434	32,525	15,973	80,478	—	3	3,515	82	—	16,816	—	14,004	8,282	127,770	1,008	—	—	7,145	1,479	32,753	42,385	580	1,156	1,736	10,747	10,747
Rails (heavy) (rerolled)	28,075	2,117	62,305	16,266	19,157	2,787	161,070	218	273	—	2	3,011	3,973	—	—	—	183,013	1	210	—	6,961	1,149	148,236	157,486	25	1,216	1,241	7,187	7,187
Rails (heavy) (not rerolled)	1,504	31	1,018	4,233	1,037	11	11,167	72	76	—	12	—	—	—	—	—	14,747	—	1	—	224	1	1,721	1,951	—	—	—	—	—
Rails (light)	—	—	39	33	—	—	72	—	—	—	—	—	—	—	—	—	72	—	—	—	—	—	3,451	3,451	—	—	—	—	—
Splice bars	14	24	3,053	60	39	161	3,351	—	—	—	—	—	—	—	—	—	3,351	—	—	—	11	—	171	182	—	—	—	69	69
Wire rope and wire fencing	882	366	3,704	40	586	204	13,092	325	199	—	20	17,283	19,191	11,426	—	—	63,141	1,768	365	19,186	31,708	8,33	68,170	129,570	—	—	—	1,363	1,429
Wire (other)			4,066	41	—	—	4,107	—	—	—	—	2,162	479	—	—	—	6,679	—	116	30	3,072	—	112	3,330	—	—	—	112	121
Tinplate	1,978	7,285 3,139	569	6,111 23,706	1,864 27,603	—	15,543 56,996	—	66 —	—	—	—	161	—	—	—	15,609 57,157	—	—	—	80 —	—	14,992 —	15,072 —	—	—	—	111 —	111 —
Blackplate	—	—	—	18	—	—	18	—	—	—	—	—	—	—	—	—	18	—	—	—	—	—	—	—	18	—	18	735	753
Terne plate	—	—	—	312	—	—	312	—	—	—	—	—	—	—	—	—	312	—	—	—	—	—	9,719	9,719	—	—	—	—	—
Sheet (hot rolled)	5,841	241,065	15,706	422,608	398,813	55,102	1,138,888	43,168	9,938	2	—	910	3,998	1	6,209	243	1,199,456	—	—	—	23,482	57	665,417	688,957	1,156	—	1,324	67,082	67,082
Sheet (cold rolled)	6,874	163,070	100,545	213,295	594,462	72,780	1,181,170	1,411	171	—	—	1	18,599	—	—	2,714	1,216,678	—	12	—	180,674	600	870,221	1,051,295	24,188	—	24,188	23,675	23,675
Sheet (hot rolled) (galvanized)	16,439	33,283	21,241	132,612	216,881	10,936	461,496	—	—	—	—	—	39,629	—	—	4,549	505,149	—	—	—	29,436	928	1,259,851	1,290,209	56,153	30,996	87,147	106,273	106,273
Sheet (coated) Alloy	—	—	—	3	—	—	3	—	—	—	—	—	—	—	—	—	3	—	—	—	—	—	—	—	—	—	—	—	—
Strip (hot rolled)	62	—	1,883	39	1,593	279	6,856	—	211	—	—	—	274	—	—	72	7,361	—	—	—	3,261	—	3,301	6,777	71	—	71	—	—
Strip (cold rolled)	3,876	14	72	245	18,829	135	26,641	325	33	—	—	—	141	—	—	—	27,270	—	—	—	—	—	2,063	2,063	—	—	—	—	—
Strip (hot & cold rolled) Alloy	636	—	215	1,183	5,612	44	7,712	4	18	—	—	—	—	—	—	—	10,390	—	—	—	—	—	1,429	1,429	—	—	—	—	—
Strip (other) Carbon coated	116	—	—	1,013	3,179	—	5,518	—	—	—	—	—	—	—	—	—	5,518	—	—	—	—	—	121	121	—	—	—	—	—
Total Steel Mill Product	133,727	489,881	956,405	1,340,678	1,868,076	294,671	5,405,389	145,985	22,432	12,768	1,171	117,121	388,199	12,188	56,899	38,855	6,200,758	4,128	19,366	19,225	983,666	188,545	6,336,991	7,479,810	113,145	11,240	124,385	447,306	447,306
Coke	16,670,951	2,584,913	158,921	621	500	10,103	418	134,146	30,161	635,147	125,490	—	—	—	—	—	16,670,951	—	—	—	—	—	—	—	—	—	—	—	—
Pig iron	1,000,000	1,000,000	—	—	—	—	—	3,231	1,979	7,114	11,757	—	—	—	—	—	1,000,000	—	—	—	—	—	—	—	—	—	—	—	—
Scrap	160,167	8,213	1,174	—	—	5	—	2,001	427	2,433	26,832	171	1,178	—	—	41	68,179	—	—	—	—	—	—	—	—	—	—	—	—
Other Iron Products																													
Steel castings, fabricated	22,814	878	383	322	1,345	5,838	11,679	—	2,903	—	10	—	42	—	—	—	17,653	—	101	—	1,370	159	8,106	9,735	231	59	271	24	24
Shapes, cold formed	2	—	—	3	110	—	110	—	9	—	—	—	—	—	—	—	152	—	—	—	—	—	—	—	—	—	—	—	—
Steel castings	7	20	—	3	20	—	50	—	—	—	—	—	—	—	—	—	50	—	—	—	—	2	2	4	—	—	—	—	—
Forgings, iron & steel	1,000	—	—	—	—	—	1,000	—	2	—	—	—	—	—	—	—	1,958	—	134	—	—	—	1	135	—	—	—	896	896
Wire, screen cloth	747	551	6	153	6	—	1,463	—	—	—	—	—	—	—	—	—	1,469	—	—	—	—	—	—	—	—	—	—	—	—
Wire, fencing	1,746	1,772	12,003	11,747	3,123	217	29,756	73	—	—	17	2	3,093	—	—	—	33,631	376	418	—	15,198	1,263	21,809	38,734	—	—	—	813	813
Wire, nails	1,261	1,772	5,449	4,146	3,253	1,458	23,303	—	1,283	—	2	—	7,599	—	—	—	32,152	78	152	—	9,687	140	96,096	106,002	—	—	—	1,367	1,367
Wire, other	1,755	691	959	60	163	1,937	—	—	—	—	—	27	—	—	—	—	1,961	—	—	3	65	73	—	139	19	—	19	—	—
Bolts, nuts, screws	3,957	258	123	1,254	4,797	588	8,895	—	2,061	—	19	250	58	—	—	—	12,942	84	94	—	7,086	482	9,222	16,968	21	18	39	1	1
Rivets	1,000	1,000	1,876	1,127	—	—	6,860	—	—	—	—	—	—	—	—	—	6,860	—	—	—	—	—	15	15	—	—	—	—	—
Chain	1,920	5,921	106	224	5,434	7,509	21,268	1	112	—	1,466	12,110	9,991	6,365	—	—	57,242	—	—	—	1,774	32	140,095	141,901	1,709	1	1,756	792	792
Springs, except flat rolled	1,000	6	1,010	2	234	1,288	2,540	—	—	—	—	—	1,000	—	—	—	3,540	—	—	—	24	—	4,254	4,278	1,703	—	1,703	—	—
Springs, flat rolled	14	4	698	367	58	18	1,426	—	41	—	—	—	529	—	—	—	2,017	—	—	—	56	—	1,000	1,056	2,017	—	2,017	—	—
Horseshoes	1,000	10	1	370	2	309	1,692	—	24	—	—	—	1,931	6	—	77	3,730	165	—	—	1,275	32	148	1,620	2,060	—	2,060	—	—
Total Other Iron Products	3,339	46	29	4,067	11,129	10,736	30,178	—	24	—	17	—	1,931	6	—	77	35,751	197	3,608	—	1,332	2,950	31,813	40,013	135	22	157	114	114
Total Iron & Steel Products	29,274	10,959	25,769	22,972	30,824	26,783	137,301	74	6,433	—	1,522	12,362	24,410	6,569	—	77	197,692	1,358	26,778	895	77,798	64,544	544,161	690,362	3,199	91	3,290	23,929	23,929
	414,006	510,031	982,174	1,363,642	1,898,900	318,454	5,542,603	146,059	28,865	12,768	2,693	129,483	412,609	18,757	56,899	38,932	6,590,162	5,486	46,144	20,120	1,061,464	173,089	6,880,166	8,169,472	114,644	11,331	163,003	589,236	589,319
Iron & Steel Scrap																													
Bearings, parts & blooms, etc.	10	—	—	—	—	—	10	—	—	—	—	—	—	—	—	—	10	—	—	—	—	—	—	—	—	—	—	—	—
Cast iron pipe and fittings	1	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	1	—	—	—	702	—	57	759	—	—	—	—	—
Other cast iron pipe and fittings	15	3	—	61	10	—	89	—	—	—	—	—	—	—	—	—	91	—	—	—	276	—	1,000	1,276	6	—	6	—	—
Malleable cast iron pipe fittings	113	—	—	98	12	—	423	—	—	—	—	—	—	—	—	—	423	17	643	—	1,927	3,454	9,756	16,446	—	—	—	—	—
Cast iron and forgings	7,174	67	347	3,062	6,095	22,165	40,041	—	—	—	11	—	2,899	377	—	—	43,624	127	54,184	—	1,218	8,420	5,414	69,747	158	—	158	810	852
Pig iron	126,881	18,667					18,924	9,668					28,888				58,125					1	1	2	7,889		7,889	11,777	11,777
Steelmaking (manganese content)	1,000	1,000			1	1,789	42	19,579									23,797		26										
Ferromanganese (manganese content)	68,724	8,857	50,551					2,031									2,031				769	293		1,062					
Ferrosilicon (silicon content)	21,661	11,462			44	4,815	1,639	73,027	286	6,404							206,931		12,858		22,787	35,633	21,305	79,725	283,656		283,656	28,123	28,123
Ferrochromium-chromium content	12,501				10	805	2,749	27	3,204								32,239				94	92		186	782		782	9,674	9,674
Other ferroalloys	20,206	818	1,017		9,871		42	23,179		34,709	134	16,885	19,207				31,475				1,995	1,995		3,990			76,774	76,774
Total Iron Product & Ferroalloy	1,000,000	1,000,000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	30,077				2,066	2,071	107	4,244	7,746		7,746	5,794	5,794
GRAND TOTAL	12,347	76	5,479	153,326	21,160	22,661	215,183	18	55	—	11	—	43,410	18,821	—	—	161,016	114	69,121		5,067	12,051	42,879	129,357	39,885		39,885	112,440	112,440
	186,353	510,107	987,653	1,516,968	1,920,060	341,118	5,757,786	146,077	28,920	12,768	2,704	129,483	448,019	67,578	56,899	38,632	7,051,178	5,600	115,265	20,120	1,068,536	185,140	6,923,045	8,299,829	154,529	11,331	202,888	701,676	701,759
	8,231	8,738	43,854	121	758	19	61,721		99		10					141													
																	67,425	11				19	8,748	6,789					

TABLE 26—IMPORTS OF IRON AND STEEL BY CUSTOMS DISTRICT—1979

(Net tons)

Products	Grand Total	Atlantic Coast: Boston	Providence Bridgeport	New York City	Philadelphia	Baltimore, Wash., D.C.	Norfolk	Wilmington	Charleston	Savannah	Tampa	Miami
Steel Mill Products:												
Ingots, blooms, billets, slabs, etc.	311,607	1	219	417	21,596	2,606	210					
Wire rod	753,114	11	50,292	15,561	14,966	25,052	2,121	2,207	2,005	2,703	31,831	67
Structural shapes: Plain 3" & over	1,543,947	127	99,855	8,011	62,628	16,569	25	15,109	29,033	32,177	73,649	3,439
Sheet, piling	182,811		18,986		1,752	1,752			134	2,178	1,171	1,146
Plate	1,439,852	76	64,211	3,090	111,328	14,005	176	13,462	2,265	25,644	27,673	3,188
Rail and track accessories	113,676		34	6	5,003	9,049	65		1	185	13	
Wheels and axles	28,347	61	2,252	1,126	6,737	357	4		8,882			
Concrete reinforcing bar	146,934		194	192		116			203			
Bar—shapes, under 3"	231,044	126	5,002	996	16,155	1,119	12	527	1,326	501	6,442	553
Bar: Hot rolled, Carbon	76,153	1,270	1,854	1,145	11,158	1,284	86	637	633	1,926	1,892	1,144
Bar: Hot rolled, Alloy	13,882	1,339	2,389	1,317	13,152	2,201	965	2,215	1,901	688	10	80
Bars: Cold finished	178,479	163	3,563	8,145	23,370	11,726	110	299	2,241	1,881	1,837	1,345
Hollow drill steel	2,022			131		231						
Welded pipe and tubing	147,946	749	12,945	1,748	92,568	1,532	2,799	29,885	8,015	32,621	50,985	10,541
Other pipe and tubing	1,165,514	1,863	12,867	24,799	147,726	4,116	1,296	1,582	1,582	8,813	8,186	1,162
Rouned and shaped wire	139,843	1,221	9,356	66,888	17,688	26,114	2,738	5,257	1,019	8,088	3,388	1,124
Flat wire	29,417	1,119	80	9,041	200	1,653	284		221	341	15	
Bale ties	33					33			117	3,242	5	5,511
Galvanized wire fencing	11,561	174		15	69	2		199	18	65	986	63
Wire nails	136,514	6,270	751	26,847	15,158	8,145	1,502	11,929	1,952	19,870	5,258	3,285
Barbed wire	18,179	264		259	513	496	225	540	745	1,999	2,158	262
Rack plate	82,926		1,613		24,859	3,182						
Tin plate	307,569		3,509	183	9,259	6,742				856	2,719	
Terne plate	3,143		33		172							
Sheet: Hot rolled	2,161,772	32	96,977	2,655	186,510	9,969	88	3,278	3,223	9,002	25,509	2,731
Sheet: Cold rolled	2,412,987	287	241,878	15,412	280,813	20,788	238	15,996	13,348	11,752	5,111	10,673
Sheet: Coated (incl. galvanized)	2,139,148		51,249	726	252,908	9,977		29,832	59,044	62,739	49,988	37,558
Sheet: Coated, Alloy	37											
Strip: Hot rolled	37,349	22	1,276	33	1,667	128		57	35	32	395	22
Strip: Cold rolled	41,852	20	1,674	8,514	58	2,752	157	1,059	263	277	2	
Strip: Hot & Cold rolled, Alloy	24,252	520	3,123	2,620	3,810	734	123	245	35	9	2	11
Sheet: Other, Electric coated	38,591		1,015	118	7,000			4				
Total Steel Mill Products	17,548,515	20,623	687,240	362,101	1,277,021	233,174	15,818	133,813	131,310	219,259	304,971	90,962
Carbon	16,620,815	15,997	633,156	332,567	1,197,100	185,953	11,139	128,432	126,051	214,854	293,295	89,382
Alloy	728,188	2,107	28,064	18,241	52,331	33,186	1,910	1,351	1,997	3,997	965	88
Stainless	169,102	2,519	6,020	11,293	27,590	14,035	769	4,030	3,262	400	711	1,492
Other Steel Products:												
Structural shapes, fabricated	180,122	500	253	4,686	3,180	3,013	1,219	55	686	3,105	3,957	277
Shapes: Cold formed	551	101	1	16	10				9	8		1
Sashes and frames	31			31								
Fence or sash posts	3,157	6				19	20					
Wire: Nonmetallic covered	62	10		29		12						
Wire: rope	111,766	2,796	20	11,092	716	7,007	6,177	6,057	7,115	1,117	1,157	909
Wire: strand	141,523	99	1,172	11,691	2,443	8,015	4,183	5,856	2,069	5,441	8,122	9,041
Welded wire fabric	19,290	24		4,498	449	2,227			1,131	1,181	1,248	1
Other nail-and staples	1,584	806	1,208	1,686	343	1,191	382	2,676	815	2,131	748	789
Bale ties: Strip	9,016											
Bolts, nut, and rivets	220,374	6,002	1,436	61,877	23,613	16,126	2,831	3,661	3,213	21,943	2,174	1,952
Grinding balls	2,771			2,771			6					
Blanks, nonrectangular flat rolled	6,783			6,745	773	7						31
Rigid conduit	1,009	16		657								
Pipe and tube fittings	57,731	389		13,118	4,472	7,643	199	77	1	1,318	2,901	31
Total Other Steel Products	1,149,751	10,878	4,189	185,974	36,017	48,243	15,027	18,618	14,379	41,020	19,330	13,165
Total Steel Products	18,698,266	31,501	691,429	547,175	1,313,977	282,133	31,750	152,451	145,689	261,028	324,301	113,057
Iron Products & Ferroalloys:												
Bar iron, iron slabs & blooms, etc.	93	49			314	1						
Cast iron soil pipe and fittings	5,501	573		1,182	231	137	11					
Other cast iron pipe and fittings	8,500	5		2,167	1,211	1,141		1		609	702	145
Malleable cast iron pipe fittings	1,000			1	1	1				1	1	
Castings and forgings	13,666	1,817	1,630	11,768	3,529	9,668	6,016	2,710	552	7,295	142	10
Pig iron	104,211	112		334	58,845	25	67		1	53,384		1
Sponge iron	1,000				700							
Ferromanganese (manganese content)	68,744				20,637	47,978			1,586			
Ferrosilicon (silicon content)	9,284			249	7,053	1,982	22		632	316		
Ferrochromium (chromium content)	110,291	70	5,921	166	17,527	27,915	174	169		88		
Other ferroalloys	88,709	8		278	9,815	71,687			1,589	24		2
Total Iron Products & Ferroalloys	538,709	2,770	7,601	18,857	130,317	161,896	32,290	2,885	4,281	61,661	845	192
GRAND TOTAL	19,236,975	34,271	699,030	326,015	1,467,780	436,029	63,973	156,234	149,970	322,689	325,046	113,249
Iron and Steel Scrap	749,178	1	19	265	1,934	45,579	76				293	3,062

Products	Gulf Coast-Mexican Border: Total	Mobile	New Orleans	Port Arthur	Galveston	Houston	Laredo	El Paso Nogales	Total	Pacific Coast: San Diego	Los Angeles	San Francisco	Portland	Seattle	Total	Anchorage
Steel Mill Products:																
Ingots, blooms, billets, slabs, etc.	39,257		58,966			10,881			69,847	22	4,114	376			4,506	—
Wire rod	175,219	14,693	102,311		241	15,999	198		133,532	3,159	116,266	13,812	337	5,672	136,087	—
Structural shapes: Plain 3" & over	355,827	21,166	183,880			217,132	51,245	617	476,060		226,374	121,585	121,266	51,266	527,115	—
Sheet, piling	35,076		13,427			21,745			35,172		2,066	6,464	3,240	502	12,281	—
Plate	245,258	33,999	250,300	1		332,509	1		616,565	1	108,924	18,761	16,328	34,752	287,691	—
Rail and track accessories	13,676		34	6	5,003	9,049	65		14,057		1	1	1	1	4	—
Wheels and axles	21,777	1,131	3,911			14,661	3,017	158	22,911		3	1,516	8,128	12,706	22,353	117
Concrete reinforcing bar	707		10			14,031	7,512	1,971	23,524	1,709	31,126	1,126	261	292	35,307	1,869
Bar—shapes, under 3"	16,758	1,042	12,472			16,756	1,278		31,720	908	35,075	16,760	15,763	9,709	91,267	—
Bar: Hot rolled, Carbon	32,908	4,797	21,625			33,631	2		60,055	28	66,037	12,876	16,336	9,345	105,292	—
Bar: Hot rolled, Alloy	39,206		34,859			34,859			69,718		6,004	1,510	1	1,961	9,476	—
Bars: Hot rolled	53,587	1,906	12,461	92		37,830			52,289		3,173	4,425	2,273	12,801	—	
Bars: Cold finished	4,314					4,314			4,314							
Hollow drill steel	2,022		131			231			362							
Welded pipe and tubing	240,990	21,230	262,379		1,964	479,872	69,349	2,141	836,935	110	214,078	67,529	51,043	16,399	349,159	1,599
Other pipe and tubing	308,360	4,106	68,053		115	559,981	3,514	90	636,259		85,075	22,305	16,441	36,938	160,759	14,619
Rouned and shaped wire	155,909	5,576	52,670			14,779	55		73,080	28	28,315	7,961	3,710	14,916	54,930	—
Flat wire	14,161	135	538			677	78	11	1,439	2	1,742	232	85	319	2,380	—
Bale ties	3													18	18	—
Galvanized wire fencing	1,598	94	1,056			117	3,242	5	4,514	1	14	145	59	72	291	—
Wire nails	98,366	29	31,111			26,146	2,115	17	59,472	65	34,913	31,072	4,549	18,101	88,703	58
Barbed wire	6,383	227	1,914			1,718	2,532		6,121	16	519	1,706	625	678	3,661	—
Rack plate	14,656		1,613			14,017			14,656		1,999				1,999	—
Tin plate	22,610	1,883	18,651			15,598			36,132		76,188	1,219			107,810	—
Terne plate	3,143		33			172			205						918	—
Sheet: Hot rolled	318,898	19,224	158,174			332,718	45		549,966		315,360	53,029	52,955	37,212	448,556	101
Sheet: Cold rolled	618,659	14,861	303,777			189,216	1,570		512,101		356,945	93,772	9,911	9,681	469,309	—
Sheet: Coated (incl. galvanized)	346,677	7,102	268,200			342,871	1,109		751,276		210,274	160,891	83,713	65,657	520,535	—
Sheet: Coated, Alloy	37														3	—
Strip: Hot rolled	1,349	99	1,161			3,744			4,167		1,716	873	591	581	3,761	—
Strip: Cold rolled	29,074	535	2,806			2,641	350		5,832	250	1,858	599	521	68	3,023	—
Strip: Hot & Cold rolled, Alloy	11,271					561			561		1,075	1,161	117	104	5,761	—
Sheet: Other, Electric coated	1,447		1,015			1,015			2,030	3	2,575	11,152			13,730	—
Total Steel Mill Products	3,027,989	108,872	1,870,613	97	5,320	2,749,373	148,107	5,029	5,002,455	6,196	2,001,057	682,924	387,511	349,999	3,529,718	18,655
Carbon	2,901,014	100,602	1,796,434	97	5,117	2,662,815	146,513	1,939	5,001,089	6,196	1,925,908	671,077	170,839	338,357	3,113,277	18,640
Alloy	91,888	7,854	59,870	—	203	70,949	1,594	3,090	127,660	—	46,273	9,774	216,672	9,477	282,196	15
Stainless	35,087	416	14,309	—	—	15,609	—	—	30,334	—	28,876	2,073	—	2,165	134,245	—
Other Steel Products:																
Structural shapes, fabricated	12,444	58	12,386	—	—	12,444	1,118	—	25,626	—	31,116	1,019	1,432	2,066	39,163	15
Shapes: Cold formed	1					1			1							
Sashes and frames	18		18			18	2		38	1	1	1		8	19	—
Fence or sash posts	1,077		1,077			1,077	2		1,852	2	83	24			111	—
Wire: Nonmetallic covered	62		29			29			29				2	86	88	—
Wire: rope	15,822	3,024	10,881	21	78	21,357	206	2	35,569	115	2,852	7,360	1,251	6,139	21,317	—
Wire: strand	40,158	1,002	16,513			28,803	650		51,658		15,344	10,286	9,765	4,814	40,209	—
Welded wire fabric	1,272	12	1,258			1,270	1,258	721	3,259	18	1,109	58	712	1,040	2,937	—
Other nail-and staples	11,782	13	2,583		6	4,555			7,157	1,082	217	677	7,297		9,273	—
Bale ties: Strip	9,016				5,764	3,252			9,016						2,778	—
Bolts, nut, and rivets	157,197	10,167	15,883	60		39,310	316	155	55,520	2,115	78,593	12,087	12,661	37,045	162,742	3
Grinding balls	1,961	600	22			1,961	11	60	2,654	11	691	1	6		829	—
Blanks, nonrectangular flat rolled	1,771				25	25	8		33	2	1,742	1		12	1,757	—
Rigid conduit	1,009					1,009			1,009		1,773				1,773	—
Pipe and tube fittings	22,111	1,451	3,384			32,611	27		37,073	19	1,171	950	851	2,516	5,507	7
Total Other Steel Products	347,827	17,986	63,136	81	2,813	183,650	9,726	985	227,190	1,475	132,848	32,720	14,860	85,778	300,760	762
Total Steel Products	3,671,684	216,688	1,995,774	1,570	8,133	2,963,903	157,833	5,714	5,229,925	19,671	2,136,905	714,763	582,401	435,678	3,830,478	19,357
Iron Products & Ferroalloys:																
Bar iron, iron slabs & blooms, etc.	367	15				16	1	11	43							—
Cast iron soil pipe and fittings	1,382	12	278			56	7	39	392	228	5	5	17	369	—	—
Other cast iron pipe and fittings	1,809	11	797			1,922		394	2,719	509	178	18	1	786	1,472	—
Malleable cast iron pipe fittings	58,842	2,956	7,210			26,081	935	2,142	39,326	3,288	8,597	6,877	1,062	2,847	22,871	—
Castings and forgings	1,000	1,817	1,630	11,768	3,529	9,668	6,016	2,710	552	7,295	142	10				—
Pig iron	139,123	2,767	74,890			57,027	12,876		53,384		17,908	10,476		1,112	29,116	—
Sponge iron	16,015		10			20			30		742	10		24	806	—
Ferromanganese (manganese content)	89,544	1,500	151,973			68	18,008	3,801	169,750		2,411	8,791	209		11,411	—
Ferrosilicon (silicon content)	9,284	1,210	36,296			8,965	167		31,178		551	261	30	105	1,147	—
Ferrochromium (chromium content)	52,852	15	37,906			76	88		58,084		552		153	38	743	—
Other ferroalloys	32,101	1,186	38,008			3,809	999	324	45,547		2,078				2,087	—
Total Iron Products & Ferroalloys	420,711	12,972	657,107	—	—	62,693	55,375	6,267	794,114	3,887	40,518	26,395	1,514	6,457	78,771	—
GRAND TOTAL	4,005,395	229,660	2,592,881	1,570	8,163	2,966,596	213,208	11,981	6,024,039	14,558	2,177,423	741,158	333,915	442,135	3,909,189	19,357
Iron and Steel Scrap	50,663	672	879	—	79	22	27,168	16,100	44,920	4,012	244	—	34	138,516	142,806	—

Products	Off Shore: Honolulu	San Juan	Total	Great Lakes Canadian Border: Portland	St. Albans	Ogdensburg	Buffalo	Great Falls	Pembina	Minneapolis	Milwaukee	Detroit	Chicago	Cleveland	St. Louis	Total
Steel Mill Products:																
Ingots, blooms, billets, slabs, etc.																
Wire rod																
Structural shapes: Plain 3" & over																
Sheet, piling																
Plate																
Rail and track accessories																
Wheels and axles																
Concrete reinforcing bar																
Bar—shapes, under 3"																
Bar: Hot rolled, Carbon																
Bar: Hot rolled, Alloy																
Bars: Hot rolled																
Bars: Cold finished																
Hollow drill steel																
Welded pipe and tubing																
Other pipe and tubing																
Rouned and shaped wire																
Flat wire																
Bale ties																
Galvanized wire fencing																
Wire nails																
Barbed wire																
Rack plate																
Tin plate																
Terne plate																
Sheet: Hot rolled																
Sheet: Cold rolled																
Sheet: Coated (incl. galvanized)																
Sheet: Coated, Alloy																
Strip: Hot rolled																
Strip: Cold rolled																
Strip: Hot & Cold rolled, Alloy																
Sheet: Other, Electric coated																
Total Steel Mill Products																
Carbon																
Alloy																
Stainless																
Other Steel Products:																
Structural shapes, fabricated																
Shapes: Cold formed																
Sashes and frames																
Fence or sash posts																
Wire: Nonmetallic covered																
Wire: rope																
Wire: strand																
Welded wire fabric																
Other nail-and staples																
Bale ties: Strip																
Bolts, nut, and rivets																
Grinding balls																
Blanks, nonrectangular flat rolled																
Rigid conduit																
Pipe and tube fittings																
Total Other Steel Products																
Total Steel Products																
Iron Products & Ferroalloys:																
Bar iron, iron slabs & blooms, etc.																
Cast iron soil pipe and fittings																
Other cast iron pipe and fittings																
Malleable cast iron pipe fittings																
Castings and forgings																
Pig iron																
Sponge iron																
Ferromanganese (manganese content)																
Ferrosilicon (silicon content)																
Ferrochromium (chromium content)																
Other ferroalloys																
Total Iron Products & Ferroalloys																
GRAND TOTAL																
Iron and Steel Scrap																